PB83-190256 .

# Comprehensive Data Handling System (CDHS) Coding Manual

Research Triangle Inst.
Research Triangle Park, NC

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

Feb 81

**U.S. Department of Commerce**
**National Technical Information Service**
**NTIS.**

## TECHNICAL REPORT DATA
*(Please read Instructions on the reverse before completing)*

| | | |
|---|---|---|
| 1. REPORT NO.<br>EPA 450/4-81-009 | 2. | 3. RECIPIENT'S ACCESSION NO.<br>PB83 190256 |
| 4. TITLE AND SUBTITLE<br>The Comprehensive Data Handling System (CDHS) Coding Manual | | 5. REPORT DATE<br>February 1981 |
| | | 6. PERFORMING ORGANIZATION CODE |
| 7. AUTHOR(S)<br>The Research Triangle Institute<br>Research Triangle Park, North Carolina | | 8. PERFORMING ORGANIZATION REPORT NO. |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Office of Air Quality Planning and Standards<br>Monitoring and Data Analysis Division<br>National Air Data Branch<br>Research Triangle Park, North Carolina 27711 | | 10. PROGRAM ELEMENT NO. |
| | | 11. CONTRACT/GRANT NO.<br>68-02-3011 |
| 12. SPONSORING AGENCY NAME AND ADDRESS<br>U.S. Environmental Protection Agency<br>Office of Air, Noise and Radiation<br>Office of Air Quality Planning and Standards<br>Research Triangle Park, North Carolina 27711 | | 13. TYPE OF REPORT AND PERIOD COVERED<br>Final |
| | | 14. SPONSORING AGENCY CODE<br>68 EPA |

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This manual is provided as a supplement to the EIS/AS User's Guide (EPA-450/4-80-009) and the EIS/PS User's Guide (EPA-450/4-80-010). It contains detailed information on coding the input transactions for both area sources and point sources.

17. KEY WORDS AND DOCUMENT ANALYSIS

| a. DESCRIPTORS | b. IDENTIFIERS/OPEN ENDED TERMS | c. COSATI Field/Group |
|---|---|---|
| Computer Programs<br>Computer Software<br>Data Processing<br>Air Pollution<br>Data Files | CDHS<br>EIS/AS<br>EIS/PS<br>NEDS | |

| | | |
|---|---|---|
| 18. DISTRIBUTION STATEMENT<br>Release Unlimited | 19. SECURITY CLASS *(This Report)*<br>Unclassified | 21. NO. OF PAGES<br>138 |
| | 20. SECURITY CLASS *(This page)*<br>Unclassified | 22. PRICE |

EPA Form 2220-1 (9-73)

EPA-450/4-81-009

PB83-190256

# The Comprehensive Data Handling System (CDHS) Coding Manual

by

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Contract No. 68-02-3011

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Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air, Noise, and Radiation
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

February 1981

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

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## ACKNOWLEDGEMENT

This manual was prepared by the Research Triangle Institute, Research Triangle Park, North Carolina, for the Environmental Protection Agency under Contract 68-02-3011.

The work has been conducted under the direction of Mr. Edward J. Mask of the National Air Data Branch (NADB), who is the EPA Project Officer for the contract.

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## 1.0 Introduction

The Emissions Inventory System (EIS) consists of two subsystems: Emissions Inventory System/Area Source (EIS/AS) and Emissions Inventory System/Point Source (EIS/PS).

This manual is provided as a supplement to the EIS/AS User's Guide (EPA-450/4-80-009) and the EIS/PS User's Guide (EPA-450/4-80-010). It contains detailed information on coding the input transactions for both area sources and point sources.

An introduction to each subsystem is given detailing the types of records on the file and information concerning adding records to the file. Then each card is explained, field by field, giving allowed codes for the field. The appendices include tables listing each field with its length, characteristic (alphabetic or numeric), and which type of transactions the field is allowed on. Also in the appendices are copies of all input forms.

The EIS coding forms are used to organize emissions data into computer-readable format for key punching and subsequent entry into computerized data files. Therefore, all forms must be completed correctly.

In the following discussion, several terms will be used for which the following definitions are necessary:

FORM - Any of the individual sheets containing coding information, see Appendices C and D.

CARD - 80-column computer punch card.

COLUMN - One of the vertical columns on the card. The numbers on the form refer to these columns.

FIELD - a COLUMN or group of COLUMNS; only one subject to a FIELD. A FIELD is identified on the FORM by vertical lines extending above the COLUMN numbers. The name of the FIELD is printed between the vertical lines.

LEFT JUSTIFIED - the entry in the FIELD starts at the left side of the FIELD; it may be alphabetic or numeric; e.g.,

| CONTACT PERSON | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 43 | | | | | | | | | |
| J | O | H | N | S | O | N | | | |

RIGHT JUSTIFIED - the entry in the FIELD starts at the right side of the FIELD and is always numeric; e.g.,

| EMISSIONS ESTIMATE | | | | | | |
|---|---|---|---|---|---|---|
| 42 | | | | | | |
| | | | 3 | 7 | 4 | 9 |

ZERO FILLED - zeros are coded in any excess columns when a numeric entry contains fewer characters than there are columns in the field.

Every entry is either left justified or right justified, unless it is numeric data containing a decimal point. In that case, an implied decimal point is indicated by a triangle preprinted on the form and the data is entered so that the decimal point in the data corresponds to the triangle on the form. Zeros are entered in the remaining columns of the field; i.e., the field is zero filled. The decimal point is not punched on the card. The following example illustrates coding such data:

| EMISSION FACTOR | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 54 | | | | | | | | |
| 0 | 0 | 0 | 3 | 7 | 5▲ | 1 | 0 | 0 |

## TEN BASIC FACTS AND RULES FOR COMPLETING CODING FORMS

1. Legibility is mandatory. Print data entries using block capital letters.
2. Characters - slash zeros (0) and Z's (Ƶ).
3. DON'T change field names.
4. Decimal point - only when a triangle is preprinted in field.
5. To indicate nonapplicable, code a single, right-justified, zero in the field.
6. NO DATA - leave field blank.
7. Identifiers must be complete! Otherwise, the computer rejects the entry.
8. Control codes must be complete! Otherwise, the computer rejects the entry.
9. DON'T use fields (or columns) without names (headings).
10. Left justify letters or alphanumeric fields; right justify numbers.

## 2.0 EIS/AS Master File

The Emissions Inventory System/Area Source (EIS/AS) master file contains area source emissions data. There are three types of records on the master file: description, category, and comment.

Description records contain general descriptive information pertaining to a geographic area. The geographic area may be either a county or a smaller area denoted by a nonzero geographic suballocation number. The suballocations can be developed using any method the user desires. Up to 99,999 suballocation numbers per county are allowed.

Category records contain emissions information for a geographic area and are subordinate to the description record for that area. There can be up to 999 category records for each geographic area: category records 001-064 are used for the NEDS categories; 065-998 are used for user-defined categories; and category 999 is generated by CFMMSTR (EC0070). In addition, each category can be disaggregated with a separate record describing each disaggregation. Up to 99 disaggregations per category are allowed. The category 999 record contains a summary of emissions for all the category records with a disaggregation number of zero.

Comment records are used to include additional information for both geographic areas (county and/or suballocation description records) and categories (both category and disaggregation). There can be only one NEDS comment record for a county description record; all other EIS/AS records can have up to 999 comment records.

The master file transactions allow the user to add, change, or delete records on the master file.

Records can be added to the master file subject to the following restrictions:

1) A county description record must be present before any other records will be accepted for that county. The description record can be added in the same run as the other records.
2) A description record (county or suballocation) must be present before any category records (or category disaggregation records) can be accepted for that geographic area.
3) Comment records will only be added if there is a record in the master file (description or category) with matching key information, including state, county, geographic suballocation number, category number, and category disaggregation number.
4) Any add transaction will create a new record provided that conditions 1-3 are met.

Each transaction may be divided into three areas named identifiers, control codes, and data fields.

The identifiers do just as the name implies - identify category, geographical location, date, etc.

(IDENTIFIERS FOR EACH CARD (NO BLANKS ALLOWED)

| Card No. | Columns |
|---|---|
| Description 1 | 1 thru 19 |
| Description 2 | 1 thru 14 |
| Description 3 | 1 thru 14 |
| Description 4 | 1 thru 14 |

| Card No. | Columns |
|---|---|
| Description 5 | 1 thru 14 |
| Description 6 | 1 thru 14 |
| Description 7 | 1 thru 19 |

| Card No. | Columns |
|---|---|
| Category 1 | 1 thru 19 |
| Category 2 | 1 thru 19 |
| Category 3 | 1 thru 19 |
| Category 4 | 1 thru 19 |
| Category 5 | 1 thru 24 |
| Comment 1 | 1 thru 22 |
| Comment 2 | 1 thru 22 |
| NEDS comment | 1 thru 9 |

The control codes tell the computer program what action is required.

| Column | CONTROL CODES FOR EACH CARD (NO BLANKS ALLOWED) |
|---|---|
| 77 | Suballocation type: C - county, S - suballocation |
| 78 | G - geographic description (preprinted)<br>A - category aggregation<br>D - category disaggregation<br>R - comment (preprinted)<br>N - NEDS comment (preprinted) |
| 79 | Card Number:<br>Description 1-7 (preprinted)<br>Category 1-5 (preprinted)<br>Comment 1,2<br>NEDS comment 0 (preprinted) |
| 80 | Action code: A - add, C - change, D - delete |

All control codes must be filled in for each card that is to be keypunched.

The remainder of the form constitutes the data fields. The discussion that follows applies to the fields individually or in groups. It will start with description transactions and continue through category, comment, and NEDS comment transactions. Note that any data field can be deleted by entering an asterisk (*) in the left-most column of the field.

See Appendix A for EIS/AS transaction field tables and Appendix C for EIS/AS input forms.

## 2.1 DESCRIPTION RECORD

The description record gives information describing the geographic region.

### 2.1.1 DESCRIPTION CARD 1

STATE - COLUMNS 1-2

Enter the state identification code for the geographic area. The codes can be found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.1.0. The entry must be right justified, zero filled, with no blanks.

COUNTY - COLUMNS 3-6

Enter the four-digit code for the county or political subdivision (census division for Alaska, air pollution control district for Massachusetts, or parish for Louisiana). The county identification codes are listed in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.2.0. The entry must be right justified, zero filled, with no blanks.

AQCR - COLUMNS 7-9

Enter the Air Quality Control Region (AQCR) number as found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.3.0. The entry must be right justified, zero filled, with no blanks.

SUBALLOCATION NUMBER - COLUMNS 10-14

The suballocation number is used to divide a county into smaller geographic areas when emissions data are known for the smaller areas. This suballocation is user-defined and is not required for EIS/AS. Any technique may be used for the suballocation. Enter the suballocation number if applicable. Otherwise, leave blank (or fill with zero). The entry must be right justified.

DATE - COLUMNS 15-19

Enter the Julian date of the information recorded in the transaction. The format is YYDDD, where YY represents the year and DDD represents the day. The year (first two characters) must not be greater than the option date year. The day must be between 000 and 366. The entry must be right justified, zero filled, with no blanks.

AIR BASIN - COLUMNS 20-22

Enter a user-defined code to specify the air basin. The entry must be right justified.

SMSA - COLUMNS 23-26

Enter the code for the Standard Metropolitan Statistical Area (SMSA). See the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.7.0, for a complete list of SMSA's. The entry must be right justified.

GEOGRAPHIC NAME - COLUMNS 27-46

Enter a description of the area, either by indicating the county name or the name of the geographic area.
The entry must left justified.

MAJOR ACTIVITY - COLUMNS 47-66

Enter a description of the major activity of the area. The entry must be left justified.

ASSOCIATED PLANT ID - COLUMNS 67-70

An associated plant ID may be used to relate emissions from an area source to a plant (point source) identified in EIS/PS. For example, in EIS/PS an oil refinery is given a plant ID number and inventoried as a point source with all emissions assigned to points within the refinery boundaries. However, the refinery may be the source of additional fugitive emissions which are actually emitted from many points all around the refinery area. The fugitive emissions may be inventoried as an area source and spatially distributed over the refinery area, but can still be related to the plants and to the point source emissions in EIS/PS. The entry must be right justified.

SIP BASE YEAR - COLUMNS 71-72

Enter the most recent year in which the State Implementation Plan (SIP) was revised.

PROJECTED YEAR - COLUMNS 73-74

Enter the year for which the projection has been made.

RURAL POPULATION PERCENTAGE - COLUMNS 75-76

Enter the percentage of the area population that is rural. The entry must be right justified.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 1.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

### 2.1.2 DESCRIPTION CARD 2

COLUMNS 1-14

These fields are described in detail for the description card 1.

POPULATION - COLUMNS 15-22

Enter the population of the area. The entry must be right justified.

AQCR NAME - COLUMNS 23-76

Enter a description of the Air Quality Control Region (AQCR). The entry must be left justified.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 2.

ACTION CODE - COLUMN 80

Enter A (add), or C (change). D (delete) is not valid for this transaction. This field must not be left blank.

### 2.1.3 DESCRIPTION CARD 3

COLUMNS 1-14

These fields are described in detail for the description card 1.

SUBALLOCATION TECHNIQUE - COLUMNS 15-16

A user-defined code to specify the suballocation technique used. The entry must be right justified.

SUBALLOCATION TECHNIQUE DESCRIPTION - COLUMNS 17-36

Enter a description of the suballocation technique used. The entry must be left justified.

DEFINED AREA CODE - COLUMNS 37-39

Used instead of UTM area descriptors when an area is too large or too complex in shape to be described by coordinates. The code number references an external file which contains digitized boundary information for each area. An area may be as large as an Air Quality Maintenance Area (AQMA) or Air Conservation Area (ACA) or as small as a census tract; e.g., it may be defined as the eastern half of a county or as terrain above a specified altitude. Enter the user-defined code. The entry must be right justified.

SULFUR CONTENTS - COLUMNS 40-47

Enter the percentage of sulfur contents (weighted average) for anthracite coal, bituminous coal, distillate oil, and residual oil consumed by area sources in the geographic area. Note that the triangles indicate decimal points. A conditional message will be printed if the value exceeds 2.0 for anthracite coal, 7.0 for bituminous coal, 1.0 for distillate oil, or 5.0 for residual oil.

ASH CONTENTS - COLUMNS 48-53

Enter the percentage of ash contents (weighted average) for anthracite and bituminous coal consumed by area sources in the geographic area. Note that the triangles indicate decimal points. A conditional message will be printed if the value exceeds 25.0 for either subfield.

UTM COORDINATES - COLUMNS 54-75

The geographic area can be described by up to six UTM (Universal Transverse Mercator Projection System) coordinates. Enter the zone, horizontal (or easting), and vertical (or northing) coordinates for each desired point of the description. Note that the triangles indicate decimal points. The valid codes for each state may be found in the EIS/AS User's Guide, Appendix A, Table A-1. For further discussion of UTM, refer to the AEROS Manual Series, Volume II: AEROS User's Manual.

COLUMN 76

This column is not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 3.

ACTION CODE - COLUMN 80

Enter A (add), or C (change). D (delete) is not valid for transaction 3. This field must not be left blank.

### 2.1.4 DESCRIPTION CARD 4

COLUMNS 1-14

These fields are described in detail for the description card 1.

UTM COORDINATES - COLUMNS 15-58

These columns are described in detail for columns 54-75 of description card 3.

SOURCE TYPE - COLUMN 59

Enter the type of source. Use A for area or L for line or link.

LENGTH OR AREA - COLUMNS 60-66

Enter the length of either a line or link source, or the area of an area source. Note that the triangle indicates the decimal point.

LENGTH OF AREA UNITS CODE - COLUMNS 67-68

Enter any user-defined code to specify the units code used for length or area.

COLUMNS 69-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballoaction.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 4.

ACTION NUMBER - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for transaction 4. This field must not be left blank.

### 2.1.5 DESCRIPTION CARD 5

COLUMNS 1-14

These fields are described in detail for the description card 1.

SIP ESTIMATES - COLUMNS 15-37

Enter the State Implementation Plan (SIP) emissions estimates for TSP, SO2, NOX, HC, and CO. The estimates are expressed in hundreds of tons per year. Additional spaces in the record are reserved for future criteria pollutants that might be added. Each entry must be right justified.

COLUMNS 38-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 5.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for transaction 5. This field must not be left blank.

### 2.1.6 DESCRIPTION CARD 6

COLUMNS 1-14

These fields are described in detail for the description card 1.

SUBCARD NUMBER - COLUMN 15

This field is generated by CCENETR (EC0030) and is not entered on EIS/AS master file transactions; leave blank.

POPULATION CODE - COLUMN 16

Enter the EPA population distribution code. The field must be numeric. See the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.15, for a complete list of population codes.

GAS FUEL FOR LIGHT VEHICLES - COLUMNS 17-23

Enter the amount of gas fuel consumed by light vehicles within the area. The value is expressed in thousands of gallons. The entry must be right justified.

GAS FUEL FOR HEAVY VEHICLES - COLUMNS 24-29

Enter the amount of gas fuel consumed by heavy vehicles within the area. The value is expressed in thousands of gallons. The entry must be right justified.

DIESEL FUEL FOR HEAVY VEHICLES - COLUMNS 30-35

Enter the amount of diesel fuel consumed by heavy vehicles within the area. The value is expressed in thousands of gallons. The entry must be right justified.

VEHICLE MILES FOR LIMITED ACCESS ROADS - COLUMNS 36-41

Enter the number of measured vehicle miles traveled on limited access roads in the area. The value is expressed in tens of thousands of miles. The entry must be right justified.

VEHICLE MILES TRAVELED FOR RURAL ROADS - COLUMNS 42-47

Enter the number of measured vehicle miles traveled on rural roads in the area. The value is expressed in tens of thousands of miles. The entry must be right justified.

VEHICLE MILES TRAVELED FOR SUBURBAN ROADS - COLUMNS 48-53

Enter the number of measured vehicle miles traveled on suburban roads in the area. The value is expressed in tens of thousands of miles. The entry must be right justified.

VEHICLE MILES TRAVELED FOR URBAN ROADS - COLUMNS 54-60

Enter the number of measured vehicle miles traveled on urban roads in the area. The value is expressed in tens of thousands of miles. The entry must be right justified.

COLUMNS 61-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 6.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for transaction 6. This field must not be left blank.

### 2.1.7 DESCRIPTION CARD 7

COLUMNS 1-14

These fields are discussed in detail for the description card 1.

POLLUTANT ID - COLUMNS 15-19, 43-47

Enter the SAROAD parameter code for the pollutant which is being identified. Refer to the AEROS Manual Series, Volumn V: AEROS Manual of Codes for a complete listing of SAROAD parameter codes. The values used for the criteria pollutants are 11101 (TSP), 42101 (CO), 42401 (SO2), 42602 (NOX), 43101 (HC), and 12128 (lead). The entry must be right justified, zero filled, with no blanks.

POLLUTANT NAME - COLUMNS 20-34, 48-62

Enter a prose description of the pollutant. The entry must be left justified.

ATTAINMENT STATUS - COLUMN 35, 63

Enter the attainment status of a particular geographic area. The valid codes are:

- A - attainment
- N - nonattainment
- U - unclassified

If this field is left blank in an add transaction, or if this field contains an asterisk in a change transaction, U will be assumed and a warning message will be generated.

AQMA NUMBER - COLUMNS 36-41, 64-69

Enter the air quality maintenance number. The entry must be left justified.

COLUMNS 42, 70-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

G CODE - COLUMN 78

The column is preprinted with a G for description record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 7.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 2.2 CATEGORY RECORD

The category record contains identification and emissions data for an individual category or category disaggregation for a given area.

### 2.2.1 CATEGORY CARD 1

STATE - COLUMN 1-2

Enter the state identification code for the plant. The codes can be found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.1.0. The entry must be right justified, zero filled, with no blanks.

COUNTY - COLUMNS 3-6

Enter the four-digit code for the county (census division for Alaska, air pollution control district for Massachusetts or parish for Louisiana). The county identification codes are listed in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.2.0. The entry must be right justified, zero filled, with no blanks.

AQCR - COLUMNS 7-9

Enter the Air Quality Control Region (AQCR) number. The codes can be found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.3.0. The entry must be right justified, zero filled, with no blanks.

SUBALLOCATION NUMBER - COLUMNS 10-14

The suballocation number is used to divide a county into smaller geographic areas when emissions data is known for the smaller areas. This suballocation is user-defined and is not required for EIS/AS. Any technique may be used for the suballocation. Enter the suballocation number. If it is a county transaction, leave blank (or zero fill). The entry must be right justified.

CATEGORY NUMBER - COLUMNS 15-17

The category number is used to describe the activity or process. Categories 001 through 064 are reserved for NEDS categories, Categories 065 through 998 are user-defined, and Category 999 is reserved for emissions totals. Enter the category number. The entry must be right justified, zero filled, with no blanks.

CATEGORY DISAGGREGATION NUMBER - COLUMNS 18-19

The category disaggregation number allows the user to refine the activity associated with the category. Disaggregations are user-defined. The field should be left blank (or zero filled) for aggregate category transactions, otherwise the entry must be right justified, zero filled, with no blanks.

CATEGORY DESCRIPTION - COLUMNS 20-44

Enter a description of the category or disaggregation. The entry must be left justified.

YEAR OF INFORMATION - COLUMNS 45-46

Enter the year (last two digits) of information for the category record.

PROCESS RATE - COLUMNS 47-55

Enter the thruput during the inventory year of the fuel or material used. The process rate is expressed in units defined by the units code field. The entry must be right justified.

CATEGORY ADJUSTMENT VALUE - COLUMNS 56-62

This field is used when a category is dependent upon two activity levels, such as burning categories. Enter the second factor associated with the emission calculation. The entry must be right justified.

UNITS CODE - COLUMNS 63-64

Enter a user-defined code for the thruput (process rate) units. The entry must be left justified.

UNITS CODE DESCRIPTION - COLUMNS 65-76

Enter a description of the units code. The entry must be left justified.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation

DISAGGREGATION TYPE - COLUMN 78

Enter A for aggregate or D for disaggregate.

CARD NUMBER - COLUMN 79

The column is preprinted with a 1.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

### 2.2.2 CATEGORY CARD 2

COLUMNS 1-19

These fields are described in detail for the category card 1.

UNIFORM MONTHLY THRUPUTS - COLUMN 20

Enter Y (yes) if monthly thruputs are uniform (monthly thruput fields should not be coded), or N (no) if monthly thruputs are not uniform (monthly thruput fields should be coded). If this field is blank in an add transaction, a value of Y will be assumed.

MONTHLY THRUPUT PERCENTAGES - COLUMNS 21-44

For each month, enter the percentage of the total yearly thruput processed in that month. If the uniform monthly thruput field is Y, the monthly thruputs should not be entered (a value of 09 will be assumed for the thruputs for March, June, September, and December and a value of 08 will be assumed for the thruputs for all other months, so that the sum of the thruputs will be 100). If the uniform monthly thruput field is N, the monthly thruputs should be provided. Each thruput must be numeric. A leading space is allowed in each thruput. In an add transaction, a value of zero will be assumed for any blank thruput. The sum of the thruputs must be greater than or equal to 95 and less than or equal to 105. The entries must be right justified.

HOURS PER DAY - COLUMNS 45-46

Enter the number of hours during the day in which the activity takes place. The entry must be right justified.

DAYS PER WEEK - COLUMN 47

Enter the number of days during the week in which the activity takes place.

WEEKS PER YEAR - COLUMNS 48-49

Enter the number of weeks during the year in which the activity takes place. The entry must be right justified.

THRUPUT RATIO - COLUMNS 50-53

The thruput ratio provides an indication of how the operating schedule of the activity may vary from an average. Many area source emissions occur infrequently and for brief periods of time; although the total annual emissions averaged over the year may indicate a small daily output, emission levels while the activity is operating are quite high. The ratio of worst day to average daily thruput (process rate for the inventory year divided by 365 days) gives an indication of what "worst case" emissions could be. Taking forest fires as an example, the ratio of the maximum acres burned on any day in which forest fires occurred (or total acres burned in those fires divided by the number of days that the fires burned) to the average number of acres burned per day (total acres burned in all forest fires in the activity area during the inventory year, divided by 365) is a proper thruput ratio. Note that the triangle on the coding form indicates an implied decimal point.

### MAXIMUM HOURLY THRUPUT - COLUMNS 54-63

Enter the maximum hourly thruput of the fuel or material used. The maximum hourly thruput is expressed in units defined by the units code field. Note that the triangle on the coding form indicates an implied decimal point.

### DATA CONFIDENCE RATING - COLUMN 64

Enter a user-defined code to indicate a confidence rating for the data. This field is used to obtain a confidence rating for the emissions estimate. The field must be numeric. If the field is blank in an add transaction, or an asterisk in a change transaction, a value of zero will be assumed for the field.

### NITROGEN CONTENT - COLUMNS 65-67

Enter the nitrogen content for combustion processes. The nitrogen content is indicated as a weight percentage. Note that the triangle on the coding form indicates an implied decimal point.

### SULFUR CONTENT - COLUMNS 68-69

Enter the sulfur content for combustion processes. The sulfur content is indicated as a weight percentage. Note that the triangle on the coding form indicates an implied decimal point.

ASH CONTENT - COLUMNS 70-72

Enter the ash content for combustion processes. The ash content is expressed as a weight percentage. Note that the triangle on the coding form indicates an implied decimal point.

HEAT CONTENT - COLUMNS 73-76

Enter the heat content for combustion processes. Units are millions of BTU per category.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

DISAGGREGATION TYPE - COLUMN 78

Enter A for aggregate or D for disaggregate.

CARD NUMBER - COLUMN 79

The column is preprinted with a 2.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for transaction 2. This field must not be left blank.

### 2.2.3 CATEGORY CARD 3

COLUMNS 1-19

These fields are discussed in detail for the category card 1.

UNIFORM HOURLY THRUPUTS - COLUMN 20

Enter Y (yes) if hourly thruputs are uniform (hourly thruput fields should not be coded), or N (no) if hourly thruputs are not uniform (hourly thruput fields should be coded). If this field is blank in an add transaction, a value of Y will be assumed.

HOURLY THRUPUT PERCENTAGES - COLUMNS 21-68

For each hour, enter the percentage of the total daily thruput processed in that hour. If the uniform hourly thruput field is Y (yes), the hourly thruputs should not be entered (a value of 05 will be assumed for the thruputs for hours 0500, 1100, 1700, and 2300 and a value of 04 will be assumed for the thruputs for all other hours, so that the sum of the thruputs will be 100). If the uniform hourly thruput field is N (no), the hourly thruputs should be provided. Each thruput must be numeric. A leading space is allowed in each thruput. In an add transaction, a value of zero will be assumed for any blank thruput. The sum of the thruputs must be greater than or equal to 95 and less than or equal to 105. The entries must be right justified.

COLUMNS 69-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation

DISAGGREGATION TYPE - COLUMN 78

Enter A for aggregate or D for disaggregate.

CARD NUMBER - COLUMN 79

The column is preprinted with a 3.

ACTION CODE - COLUMN 80

Enter A (add), or C (change). D (delete) is not valid for transaction 3. This field must not be left blank.

## 2.2.4 CATEGORY CARD 4

COLUMNS 1-19

These fields are discussed in detail for the category card 1.

NEDS A7 COMMENT - COLUMNS 20-53

Enter the information to be transmitted on a NEDS A7 card. The entry must be left justified.

INFORMATION SOURCE CODE - COLUMN 54

Enter a user-defined code to specify the type of source from which the rate information was received.

INFORMATION SOURCE NARRATIVE - COLUMNS 55-74

Enter the name or a description of the information source. The entry must be left justified.

COLUMNS 75-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

DISAGGREGATION CODE - COLUMN 78

Enter A for aggregate, D for disaggregate.

CARD NUMBER - COLUMN 79

The column is preprinted with a 4.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for transaction 4. This field must not be left blank.

### 2.2.5 CATEGORY CARD 5

COLUMNS 1-19

These fields are discussed in detail for the category card 1.

POLLUTANT ID - COLUMNS 20-24

Enter the SAROAD parameter code for the pollutant whose emissions are being measured. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes for a complete listing of SAROAD parameter codes. The entry must be right justified, zero filled, with no blanks. The pollutant ID's for the criteria pollutants are 11101 (TSP), 42101 (CO), 42401 (SO2), 42602 (NOX), 43101 (HC), and 12128 (lead).

EMISSION FACTOR - COLUMNS 25-34

Enter statistical average of the rate at which a pollutant is released into the atmosphere as a result of some activity. The Federal emission factors for each category can be found in Compilation of Air Pollutant Emission Factors, EPA Publication No. AP-42. Note that the triangle on the coding form indicates an implied decimal point.

EMISSION FACTOR CONFIDENCE RATING - COLUMN 35

Enter a user-defined code to specify confidence in emission factor information. This field is used in a calculation of emission confidence rating. The field must be numeric. If the field is blank in an add transaction or an asterisk in a change transaction, a value of zero will be assumed.

EMISSION FACTOR ORIGIN - COLUMN 36

Enter the origin of the emission factor information. The valid codes are:

F - Federal
L - Local
S - State

EMISSION FACTOR SOURCE - COLUMN 37

Enter a user-defined code to further specify the origin of local emission factor information. Leave blank for state- or Federal-origin emission factor information.

POLLUTANT SPECIFIC DATA - COLUMNS 38-47

Enter user-defined supplementary information keyed to the pollutant ID code. For instance, this field may contain particulate size range information for total suspended particulate emissions (e.g., it may show the percent of total emitted particulates with average diameter less than 2 microns, less than 7, and less than 10). In the case of organic gas emissions, this field may contain a code number referencing an emission profile file.

NEDS A7 EMISSION - COLUMNS 48-54

Enter the emissions estimate value to be used on a NEDS A7 card (for criteria pollutants). The entry must be right justified.

POLLUTANT NAME - COLUMNS 55-69

Enter a prose description of the pollutant. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes for a complete list of pollutant names. The field must be left justified.

COLUMNS 70-76

These columns are not assigned; leave blank.

SUBALLOCATION TYPE - COLUMN 77

Enter C for county or S for suballocation.

DISAGGREGATION TYPE - COLUMN 78

Enter A for aggregate, D for disaggregate.

CARD NUMBER - COLUMN 79

The column is preprinted with a 5.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 2.3 COMMENT RECORD

The comment record is used to record additional information for a geographic area or a process. Comment records may be subordinate to description records (both county and suballocation) and category records (both aggregate and disaggregate).

### 2.3.1 COMMENT CARDS 1 AND 2

COLUMNS 1-19

These fields are discussed in detail for the category card 1. On a comment record, the suballocation number, category number, and disaggregate numbers should only be used if the related record is a suballocation, category, or disaggregate, respectively.

LINE NUMBER - COLUMNS 20-21

Enter a user-assigned sequential number for a comment. The field must be numeric. The line number must be nonzero for an add or change transaction. A zero or blank line number is allowed for delete transactions and causes all lines of an EIS/AS comment to be deleted. Leading spaces are allowed.

HALF COMMENT - COLUMNS 23-72

Enter the left half of an EIS/AS comment on a card number 1 and a right half on a card number 2. The entry must be left justified.

COLUMNS 73-77

These columns are not assigned; leave blank.

R CODE - COLUMN 78

The column is preprinted with an R for comment record.

CARD NUMBER - COLUMN 79

Enter 1 for the left half comment and 2 for the right half comment.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 2.4 NEDS A6 COMMENT RECORD

The NEDS A6 comment record is subordinate to a county description record. It contains a comment to be transmitted on a NEDS A6 card.

### 2.4.1 NEDS A6 COMMENT CARD

COLUMNS 1-9 (State, County, AQCR)

These fields are discussed in detail for the description card 1.

NEDS A6 COMMENT - COLUMNS 10-77

Enter a comment to be transmitted on a NEDS A6 card. This field should not be blank. If this field is blank, in an add transaction, or if the first character of this field is an asterisk in a change transaction, a value of 'GENERATED BY EIS/AS' will be assumed.

N CODE - COLUMN 78

The column is preprinted with an N for NEDS 16 Comment record.

CARD NUMBER - COLUMN 79

The column is preprinted with a 0.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 3.0 EIS/AS Emission Factor File

The EIS/AS emission factor file is used to insert emission factor information into the master file transactions and to generate master file transactions when updates to the emission factor file consists of two types of records: category records and pollutant records. Pollutant records are subordinate to category records and, therefore, cannot exist in the emission factor file without corresponding category records.

A category record can be added to the emission factor file by processing a category-1 (type 1) add transaction or by processing both category-1 and a category-2 (type 2) add transaction for the desired category. Note that a category-2 add transaction is not valid unless it is preceded by a category-1 add transaction with the same key information.

An existing category record can be changed by processing a category-1 change transaction and/or a category-2 change transaction.

An existing category record can be deleted from the emission factor file by processing a category-1 delete transaction. A category-2 delete transaction is not valid; all of the fields in the category record are deleted by the category-1 delete transaction. Also, a category-1 delete transaction deletes all of the pollutant records associated with the category record.

A pollutant record can be added to the emission factor file by processing a pollutant (type 3) add transaction; however, the corresponding category record must exist in the emission factor file. If the category record is not in the file, it must be added prior to adding the pollutant record. This can be accomplished in the same run because the emission factor file transaction sort program, CSREFTR (EC0010), sorts the transactions so that pollutant transactions follow their associated category transactions.

An existing pollutant record can be changed by processing a pollutant change transaction.

Also, an existing pollutant record can be deleted from the emission factor file by processing a pollutant delete transaction. Each pollutant delete transaction deletes a single pollutant record from the emission factor file.

## 3.1 EMISSION FACTOR CARD 1

### STATE - COLUMNS 1-2

Enter the state identification code associated with the emission factor. The codes can be found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.1.0. The entry must be right justified, zero filled, with no blanks.

### COUNTY - COLUMNS 3-6

Enter the four-digit code for the county or political subdivision (census division for Alaska, air pollution control district for Massachusetts, or parish for Louisiana). The county identification codes are listed in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.2.0. The entry must be right justified, zero filled, with no blanks.

### SUBALLOCATION NUMBER - COLUMNS 7-11

The suballocation number is used to divide a county into smaller geographic areas when emission data is known for the smaller areas. This suballocation is user-defined and is not required for EIS/AS. Any technique may be used for the suballocation. Enter the suballocation number associated with the emission factor. If it is a county transaction, leave blank (or zero filled). The entry must be right justified.

### CATEGORY NUMBER - COLUMNS 12-14

The category number is used to describe the activity or process. Categories 001 through 064 are reserved for NEDS. Categories 065 through 998 are user-defined, and Category 999 is reserved for totals. Enter the category number associated with the emission factor. The entry must be right justified, zero filled, with no blanks.

CATEGORY DISAGGREGATION NUMBER - COLUMNS 15-16

The category disaggregation number allows the user to refine the activity associated with the category. Disaggregations are user-defined. The field should be left blank (or zero filled) for aggregate category transactions; otherwise, the entry must be right justified, zero filled, with no blanks.

COLUMNS 17-23

These columns are not assigned; leave blank.

DATE - COLUMNS 24-28

Enter the Julian date of the transaction in the form YYDDD. The entry must be right justified, zero filled, with no blanks.

NITROGEN FLAG - COLUMN 29

Enter code to indicate whether or not a nitrogen content is to be used in the calculation of an estimated emission. The valid codes are:

N - Nitrogen content used.
Blank -Nitrogen content not used.

SULFUR FLAG - COLUMN 30

Enter code to indicate whether or not a sulfur content is to be used in the calculation of an estimated emission. The valid codes are:

S - Sulfur content used.
Blank - Sulfur content not used.

ASH FLAG - COLUMN 31

Enter code to indicate whether or not an ash content is to be used in the calculation of an estimated emission. The valid codes are:

A - Ash content used.
Blank - Ash content not used.

NITROGEN CONTENT - COLUMNS 32-34

Enter the weight percentage amount of nitrogen for a combustion process. Note that the triangle on the coding form indicates an implied decimal point.

SULFUR CONTENT - COLUMNS 35-37

Enter the weight percentage amount of sulfur for a combustion process. Note that the triangle on the coding form indicates an implied decimal point.

ASH CONTENT - COLUMNS 38-40

Enter the weight percentage amount of ash for a combustion process. Note that the triangle on the coding form indicates an implied decimal point.

CATEGORY DESCRIPTION - COLUMNS 41-65

Enter a brief description of the category (or disaggregation). The entry must be left justified.

COLUMNS 66-78

These columns are not assigned; leave blank.

CARD NUMBER - COLUMN 79

The column is preprinted with a 1.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 3.2 EMISSION FACTOR CARD 2

COLUMNS 1-28

These fields are described in detail for card 1.

COUNTY NAME - COLUMNS 29-48

Enter the name of the county. The entry must be left justified.

COLUMNS 49-78

These columns are not assigned; leave blank.

CARD NUMNBER - COLUMN 79

The column is preprinted with a 2.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid for card 2. This field must not be left blank.

## 3.3 EMISSION FACTOR CARD 3

COLUMNS 1-16

These fields are described in detail for card 1.

ORIGIN - COLUMN 17

Enter the origin of the emission factor information. The valid codes are:

F - Federal
S - State
L - Local.

SOURCE - COLUMN 18

Enter a user-defined code to identify individual local emission factors. This code is used in conjunction with the emission factor origin to differentiate between local emission factors.

POLLUTANT ID - COLUMNS 19-23

Enter the SAROAD parameter code for the specific pollutant whose emission factor information is being recorded. The six codes recognized by EIS/AS for the criteria pollutants and lead are: 11101 - total suspended particulates; 12128 - lead; 42401 - carbon monoxide; 42401 - sulfur dioxide; 42602 - nitrogen dioxide; and 43101 - total hydrocarbons. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, for a complete listing of SAROAD parameter codes.

DATE - COLUMNS 24-28

Enter the Julian date of the transaction in the form YYDDD. The entry must be right justified, zero filled, with no blanks.

EMISSION FACTOR - COLUMNS 29-38

Enter a statistical average of the rate at which a pollutant is released into the atmosphere as a result of the activity. Note that the triangle on the coding form indicates an implied decimal point. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes for further information.

CONFIDENCE LEVEL - COLUMN 39

Enter a user-defined value showing the reliability of the emission factor. The field must be numeric.

POLLUTANT NAME - COLUMNS 40-54

Enter the name of the pollutant. The entry must be left justified.

POLLUTANT SPECIFIC DATA - COLUMNS 55-64

Enter any pollutant-related information. The field is inserted into the master file and may be printed on reports.

COLUMNS 65-78

These columns are not assigned; leave blank.

CARD NUMBER - COLUMN 79

The column is preprinted with a 3.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be left blank.

## 4.0 EIS/PS Master File

The Emissions Inventory System/Point Source (EIS/PS) master file contains point source emission data.

The EIS/PS master file contains four types of records: plant, point, SCC, and comment. The plant record contains general descriptive information pertaining to an individual plant (point source). Plants are defined by a plant ID within the county. These ID's are assigned sequentially beginning with 0001.

Each plant can contain up to 1,296 emission points. Each emission point is defined by a point record. Refer to AEROS Manual Series, Volume II: AEROS User's Manual, Section 3.1.2, for a discussion of the grouping of emission points. NEDS point ID's are used to identify the points. The point record contains descriptive information on the point and its emissions, as well as detailed emission information for a maximum of 16 pollutants.

Each point record can have up to ten SCC records associated with it. More than one SCC record can be defined for an SCC by using the SCC sequence number. The SCC record contains descriptive information related to the SCC as well as detailed emission factor information for a maximum of 16 pollutants.

Comment records are related to emission points. Up to 99 comments with up to 999 lines (records) each can be used for a single point record. The comment records are 'free form text' and can contain permits and registration information as well as other comments desired for the point. No information from the comment records is transmitted to NEDS.

The master file transactions allow the user to add, change, or delete records on the master file.

Records can be added to the master file subject to the following restrictions:

Plant - Valid 01, 02, and 03 transactions are required to add a plant record.

Point - A plant record must be present in the master file before any point will be accepted for that plant. Valid 11 and 12 transactions, and at least one valid 13 transaction, are required to add a point record.

SCC - A point record must be present in the master file before any SCC's will be accepted for that point. Valid 21 and 22 transactions and at least one valid 23 transaction are required to add an SCC record.

Comment - A point record must be present in the master file before any comments will be accepted for that point. A valid 30 transaction is required to add a comment. Any numeric line number can be used.

Each transaction may be divided into three areas named identifiers, control codes, and data fields.

The identifiers, as the name implies, identify plant name, geographic location, date, etc.

IDENTIFIERS FOR EACH CARD (NO BLANKS ALLOWED)

| Card No. | Columns |
|---|---|
| 1 | 1-18, 36-41 |
| 2 | 1-18 |
| 3 | 1-18 |
| 4 | 1-18 |
| 11 | 1-20 |
| 12 | 1-20 |

| Card No. | Columns |
|---|---|
| 13 | 1-25 |
| 14 | 1-20 |
| 21 | 1-30 |
| 22 | 1-30 |
| 23 | 1-37 |
| 24 | 1-30 |
| 25 | 1-30 |
| 30 | 1-26 |

The one exception to NO BLANKS in the IDENTIFIER field concerns the City Code on Card One, Columns 36-39. This exception is discussed later in this section.

The control codes cause the computer program to take the action required.

| Column | CONTROL CODES FOR EACH CARD (NO BLANKS ALLOWED) | |
|---|---|---|
| 78-79 | Card Number | This code is preprinted on the coding form. |
| 80 | Action Code | A - add, C - change, D - delete. |

All control codes must be filled in for each card that is to be keypunched.

The rest of the form constitutes the data fields. The discussion that follows applies to the fields individually, or in groups. The discusssion will start with the point record transactions (cards 1 through 4) and continue through the comment record transactions (card 30). Note that any data field can be deleted by entering an asterisk (*) in the left-most column of the field.

See Appendix B for EIS/PS field tables and Appendix D for EIS/PS input forms.

## 4.1 PLANT RECORD

The plant record contains information to identify and locate a facility that has been determined to be a point source.

### 4.1.1 PLANT RECORD CARD 01

STATE - COLUMNS 1-2

Enter the state identification code for the plant. The codes can be found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.1.0. The entry must be right justified, zero filled, with no blanks.

COUNTY - COLUMNS 3-6

Enter the four-digit code for the county (census division for Alaska, air pollution control district for Massachusetts, or parish for Louisiana). The county identification codes are listed in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.2.0. The entry must be right justified, zero filled, with no blanks.

AQCR - COLUMNS 7-9

Enter the Air Quality Control Region (AQCR) number as found in the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.3.0. The entry must be right justified, zero filled, with no blanks.

PLANT ID NUMBER - COLUMNS 10-13

Enter the plant ID number as assigned within the county. Plant ID numbers must be unique for each plant within a county. The state, county, and AQCR codes will differentiate all the plants with the same plant ID number. The regional office is responsible for assigning plant ID numbers, but that responsibility may be delegated. Once assigned, a plant ID should not be changed. In most cases, the simplest and most meaningful method for assigning plant ID numbers is to begin with 0001 and number the plants sequentially up to the number of plants in the county. However, some agencies prefer to assign other special code numbers, and this is acceptable. Use of alphabetic codes or an alphanumeric combination for a plant ID number is also acceptable; however, care should be taken to ensure that, for reports, any desired sort order for the plants within a county will not be disrupted by the assignment of alphanumeric ID's. The sequence for sorting is that alphabetic ID's follow numeric ID's. However, alphanumeric ID's may fall between numeric ID's. As examples, an ID of 000A would follow 0009 and precede 0010 in the sort order, A001 would follow 9999 and precede B001, etc. In all cases, no blanks are allowed in the plant ID number field. Entries must be zero filled as necessary.

DATE OF RECORD - COLUMNS 14-18

Enter the Julian date of the information recorded in the transaction. The format is YYDDD, where YY represents the year and DDD represents the day. The year (first two characters) must not be greater than the option date year. The day must be between 000 and 366. The entry must be right justified, zero filled, with no blanks.

CONTROL REGION - COLUMNS 19-21

Enter any user-defined code used to identify the state or local control area. The entry must be left justified.

LOCAL CONTROL - COLUMNS 22-23

This field allows the user to identify plants that are physically located in one control region, but whose control is under the jurisdiction of another control region. The entry must be left justified.

### USER PLANT ID - COLUMNS 24-35

Enter any user-defined plant source identification which may differ from the NEDS conventions. The entry must be left justified.

### CITY - COLUMNS 36-39

Enter the SAROAD code number corresponding to the city in which the source is located. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.2.0, for a full list of city codes. If the city is not listed, or the plant is not in a city, leave the field blank. Otherwise, the entry must be right justified, zero filled, with no blanks.

### UTM ZONE - COLUMNS 40-41

Enter the zone associated with the UTM (Universal Transverse Mercator Projection System) coordinates given for the source. UTM coordinates can be obtained from USGS maps. The valid codes may be found in the EIS/PS User's Guide, Appendix A, Table A-1. For further discussion, refer to the AEROS Manual Series, Volume II: AEROS User's Manual. The entry must be right justified, zero filled, with no blanks.

### OWNERSHIP CODE - COLUMN 42

Enter the NEDS code used to designate the type of ownership. Values are:

P - Private
L - Local government
S - State government
F - Federal government
U - Utility

This field must not be left blank.

CONTACT PERSON - COLUMNS 43-57

Enter the last name of the person responsible for the pollution control activity at the source. If an individual is not identified, a position title should be given. The entry must be left justified.

TELEPHONE - COLUMNS 58-67

Enter the telephone number (including area code) of the person listed in the contact field. The entry must be right justified, zero filled, with no blanks.

PRINCIPAL PRODUCT - COLUMNS 68-77

Enter the principal product produced by the plant. The entry must be left justified.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 01.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be blank.

### 4.1.2 PLANT RECORD CARD 02

COLUMNS 1-18

These fields are described in detail for the plant record card 01.

ESTABLISHMENT NAME AND ADDRESS - COLUMNS 19-66

Enter a descriptive name for the plant and a usable mailing address. This is the name and address that is transmitted to NEDS. The entry must be left justified.

NUMBER OF EMPLOYEES - COLUMNS 67-70

Enter the number of persons who work at the plant. The entry must be right justified.

PROPERTY AREA - COLUMNS 71-76

Enter the area, to the nearest tenth of an acre, of the land occupied by the facility. Note that the triangle on the coding form indicates an implied decimal point.

COLUMN 77

This column is not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 02.

ACTION CODE - COLUMN 80

Enter A (add), or C (change). D (delete) is not valid on a card 02. This field must not be blank.

### 4.1.3 PLANT RECORD CARD 03

COLUMNS 1-18

These fields are described in detail for plant record card 01.

ESTABLISHMENT MAILING ADDRESS - COLUMNS 19-66

Enter the address to contact if it is different than the establishment name and address. The entry must be left justified.

COLUMNS 67-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 03.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on a card 03. This field must not be blank.

### 4.1.4 PLANT RECORD CARD 04

COLUMNS 1-18

These fields are described in detail for plant record card 01.

NEDS P7 PLANT COMMENT - COLUMNS 19-70

Enter information to be transmitted on a NEDS P7 card. The entry must be left justified.

COLUMNS 71-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

These columns are preprinted with the card number 04.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on a card 04. This field must not be blank.

## 4.2 Point Record

The point record contains emission and identifying information for an individual point within a plant.

### 4.2.1 POINT RECORD CARD 11

COLUMNS 1-18

These fields are described in detail for point record card 01.

NEDS POINT ID - COLUMNS 19-20

The NEDS point ID is a sequential number used to designate an emission point within a plant. There cannot be any blanks in the field; either numbers or letters may be used. Numbers will sort first, beginning with 00. For further discussion on assigning point ID's, see the AEROS Manual Series, Volume II: AEROS User's Manual, Section 3.1.2.

USER POINT ID - COLUMNS 21-23

Enter any local plant identification which differs from the NEDS conventions. The entry must be left justified.

SIC - COLUMNS 24-27

Enter the Standard Industrial Classification code associated with the point. SIC codes can be found in the Standard Industrial Classifications Manual, 1973. The entry must be left justified.

IPP - COLUMNS 28-29

Enter the Implementation Planning Program process (IPP) code. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.2.0, for a full list of IPP codes. The entry must be right justified.

UTM HORIZONTAL - COLUMNS 30-33

Enter the horizontal (or easting) coordinate for the UTM (Universal Transverse Mercator Projection System) measurement of the source. UTM coordinates can be obtained from USGS maps. For further discussion see the AEROS Manual Series, Volume II: AEROS User's Manual and the EIS/PS User's Guide, Appendix A, Table A-1.

UTM VERTICAL - COLUMNS 34-38

Enter the vertical (or northing) coordinate for the UTM measurement of the source. UTM coordinates can be obtained from USGS maps. For further discussion see the AEROS Manual Series, Volume II: AEROS User's Manual and the EIS/PS User's Guide, Appendix A, Table A-1.

LATITUDE - COLUMNS 39-44

Enter the latitude of the point source. Coordinates can be obtained from a USGS map. The field must be zero filled.

LONGITUDE - COLUMNS 45-51

Enter the longitude of the point source. Coordinates can be obtained from a USGS map. The field must be zero filled.

ANNUAL THRUPUT - COLUMNS 52-59

The field is divided into four three-month periods representing one year. Each subfield contains the weighted percentage of the yearly activity for that period. If all activity occurs in one period, enter 99 for that period and zeros for the other periods. The field must be numeric. The four quarterly percentages should add up to 95-105%.

OPERATING RATE - COLUMNS 60-64

The first two digits indicate the hours per day of normal operation; the third digit, the days per week; and the last two, the weeks per year. Each subfield must be right justified.

BOILER CAPACITY - COLUMNS 65-69

Enter the boiler input capacity before heat transfer. Units are in millions of BTU per hour. Zero should be used for points not containing a boiler. Note that a boiler is defined as a burner, firebox, or heat exchanger, and a means of creating and directing a flow of gases through the unit. The entry must be right justified.

SPACE HEAT - COLUMNS 70-72

Enter the percentage of total fuel used for space heating the plant. If no fuel is used for space heating, enter zeros. Note that the triangle on the coding form indicates an implied decimal point.

COLUMNS 73-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 11.

ACTION CODE - COLUMN 80

Enter A (add), C (change) or D (delete). This field must not be blank.

### 4.2.2 POINT RECORD CARD 12

COLUMNS 1-20

These fields are described in detail for plant record card 01 and point record card 11.

STACK DATA - COLUMNS 21-47

Before entering data in this field, which has six subfields, there are some considerations that affect the entire field. When several similar boilers that emit pollutants through separate stacks have been combined, the following procedure will be used to determine the actual stack parameters to be recorded. Calculate $K_i$ for each individual stack using the following equation:

$$K_i = (H_i)(V_i)(T_{si})/Q_i$$

where: $H_i$ = individual stack height, ft
$V_i$ = individual gas flow rate, $ft^3$/min
$T_{si}$ = individual stack temperature, °F
$Q_i$ = individual emission rate of any common pollutant, T/yr

Select the stack with the lowest $K_i$ value, and enter this stack height, diameter, temperature, and flow rate on the coding form in the appropriate fields. Enter in the "Comments" section, Card Six, the total number of boilers and the total number of stacks combined.

If there are entries in the height, diameter, and flow rate fields, then the plume height field should contain a single, right justified zero to indicate nonapplicability. Conversely, if the height, diameter, and flow rate fields contain zeros, then there must be an entry in the plume height field.

There are point sources that have one or more of the following characteristics:

1. No clear-cut or enclosed point of emission.
2. No stack height (e.g., burning dumps).
3. A changing locus of emissions within the facility (e.g., leaking valves at an oil refinery, dust from moving equipment in a quarry).

In such cases, the stack height, temperature, and flow rate columns on the coding form should be marked with zeros and columns 44 through 47 completed.

The STACK HEIGHT, columns 21-24, is the vertical distance between the point of emission and ground level. If an estimate of stack height must be made, that value should be rounded to the nearest 10 feet. In the majority of cases, the exact location of the discharge of pollutants will be well defined; there will be a stack or some other enclosed, constrained, or physically bounded area where pollutants are emitted. The entry must be in feet, right justified, blanks allowed.

The STACK DIAMETER, columns 25-27, is the inside diameter of a round gas exit at the point of emission; for nonround exits, it is an equivalent diameter calculated from the cross-sectional area at the point of discharge. Using a measured or estimated cross-sectional area, the equivalent diameter (De) is calculated as follows:

$$De = 1.128 \quad A$$

where A is in square feet. For another common occurrence -the rectangular stack exit -the equivalent stack diameter must be calculated from the total cross-sectional area; it cannot be assumed to be one of the linear dimensions. The entry must be in feet and tenths of feet (note that the triangle on the coding form indicates the implied decimal point), right justified, blanks allowed.

The STACK TEMPERATURE, columns 28-31, of the exhaust stream at the stack exit is reported in degrees Fahrenheit under normal operating conditions. If measured temperatures are not available, an estimate to the nearest 50°F should be made. If no fuel combustion is involved in the process, and if the exhaust gas appears to be discharged at ambient air temperatures, then record the stack gas temperature as 77°F unless a definite value is known. If a plume height is entered for a source, enter 77°F for cases without combustion, and estimate the temperature for cases with combustion. The entry must be in degrees Fahrenheit, right justified, blanks allowed.

The FLOW RATE, columns 32-38, is the actual exhaust-gas volume of exhaust gas released at the operating temperature of the stack (assume gas pressure is the same as normal atmospheric pressure). When two or more boilers discharge into a common stack and each boiler is coded on a separate form, the exit-gas flow rate corresponding to each boiler is entered on the coding form. The flow rate should be reported using the following order of priority for selection:

1. Actual or measured under normal conditions.
2. Design rate.
3. Maximum rate.

The entry must be in cubic feet per minute ($ft^3/min$), right justified, blanks allowed.

The VELOCITY, columns 39-43, is the exhaust-gas velocity for the point. If the actual measurement is not available, use the design or maximum value. The entry must be in feet per minute, right justified, blanks allowed.

The PLUME HEIGHT, columns 44-47, is to be filled in if the previous spaces on stack data (except temperature) all contain zeros. Conversely, if stack height, diameter, temperature, and flow rate were reported, then column 47 should contain a zero. The plume height is a gross estimate and is used only when the source has one of the following characteristics:

1. No clear-cut enclosed point of emission (e.g., gas leaks at an oil refinery).
2. No stack height (e.g., burning dumps).
3. A mobile emission point within the facility (e.g., quarry).
4. Pollutants released into the atmosphere at ambient temperatures through diffusion (e.g., gasoline storage tanks).

Many point sources have no true stack release points (whereby the gases are forcibly exhausted to the atmosphere from an enclosed area). In such cases, columns 44 through 47 must be completed. If there is a physically definable height above ground level where the pollutants are discharged, then enter this value (in feet) in the spaces. Examples of this class are gasoline storage tanks and uncontrolled grain-drying operations where the height of the tank or dryer would be considered the plume height. On the other hand, some sources, such as some quarries, burning dumps, and gas leaks at ground level at an oil refinery, have no discernible emission height. In such cases, enter zero in column 47. Processes that discharge emissions at ambient temperatures mainly through ground-level leakage or diffusion should also be considered to have a zero plume height. In such cases the exhaust flow rate entered in columns 32 through 38 will also be zero. Ground-level emissions which are coded as zero plume heights should have an appropriate temperature entered in columns 28 through 31. Conical refuse burners must have stack data entered on the coding form. The entry must be in feet, right justified, no blanks allowed.

### POINTS WITH COMMON STACK - COLUMNS 48-51

Entries will be made if emission points discharge through a common stack. Enter four zeros if there is one emission point and one stack. First and most important is that the units in this combination MUST be numbered consecutively. Second, a form for each unit in the combination MUST be completed. For example, if plant X has 15 emission points, three of which discharge through a common stack, 15 point source input forms would be completed. On three of these forms, enter indentical stack data for the stack common to the three emission points, except that stack flow rate will be different on each of these three forms. On each of these three forms, also enter the lowest and highest of the emission point ID numbers assigned to the emission points with a common stack.

Let's say that of the 15 emission points in this plant, the four for emission point 04, will have a 04 in columns 19-20 and 0406 in columns 48-51. The form for emission point 05 would contain 05 in columns 19-20 and 0406 in columns 48-51. Point 06 would have 06 in columns 19-20 and 0406 in columns 48-51. Each of the two points so represented must be valid point ID's; that is, they must be all numbers or letters and contain no blanks. Also, the NEDS point ID must not be less than the lower point nor greater than the upper point.

## COMPLIANCE STATUS - COLUMN 52

Enter the present status of the source under existing legislation. The valid codes are:

1 - Source is in compliance with existing legislation.
2 - Source is not in compliance, and no variance has been given.
3 - Source is not in compliance, but a variance has been given.
4 - Compliance status is unknown.

## COMPLIANCE SCHEDULE - COLUMNS 53-56

Enter the year and month by which the source must be in compliance. This field is used for sources with compliance status of 2 or 3 (not in compliance). The field must be numeric. The year (first two characters) must not be more than 5 years greater than the year entered on the option card.

## COMPLIANCE UPDATE - COLUMNS 57-62

Enter the date (year, month, and day) of the most recent change in the compliance status of the source. The field should be blank for sources with compliance status of 4 (unknown). The field must be numeric. The year (first two characters) must not be greater than the year entered on the option card.

ECAP - COLUMN 63

Enter the status of the ECAP (emergency control action program) for the source. Valid codes are:

0 - ECAP is not required  
1 - ECAP required but not submitted  
2 - ECAP has been submitted  
Blank - Status unknown

CONTROL REGULATIONS - COLUMNS 64-75

Enter the air pollution control regulations that are in effect and apply to the source. The field is currently not used by NEDS.

COLUMNS 76-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 12.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on card 12. This field must not be blank.

### 4.2.3 POINT RECORD CARD 13

COLUMNS 1-20

These fields are described in detail for plant record card 01 and point record card 11.

POLLUTANT ID - COLUMNS 21-25

Enter the SAROAD parameter code for the pollutant whose emissions are being measured. Refer to the AEROS Manual Series, Volume V: Manual of Codes for a listing of SAROAD parameter codes. The entry must be right justified, zero filled, with no blanks. The pollutant

ID's for the criteria pollutants and lead are 11101 (TSP), 42101 (CO), 42401 (SO2), 42602 (NOX), 43101 (HC), and 12128 (lead).

## CONTROL EQUIPMENT COST - COLUMNS 26-32

Enter the annual cost of maintenance and operation of pollution control equipment (in dollars). Note that the triangle on the coding form indicates an implied decimal point.

## PRIMARY CONTROL EQUIPMENT - COLUMNS 33-35

Primary control equipment is any device whose main purpose is reducing emissions of a pollutant and is reported as a primary control using the codes listed in the AEROS Manual Series, Volume V, Section 3.3.0. When none of the equipment codes appear to be applicable, choose the code that most nearly resembles the actual equipment and include a comment on card 14. Only control devices that reduce the uncontrolled emissions normally associated with the process should be reported. Do not report equipment that is a normal part of the source activity even though the quantity of the pollutants emitted may be reduced. For example, the recovery system for coke by-product gases of a coke oven should not be reported as pollution control equipment for hydrocarbons. Enter the appropriate code or leave the field blank. For control equipment, enter the code. For no control equipment, zero fill. If status is unknown, leave blank. The entry must be right justified.

## SECONDARY CONTROL EQUIPMENT - COLUMNS 36-38

Secondary control equipment is a device following, in a series, another device designed to remove the same pollutant. For example, a settling chamber (or gravity collector) for removing large particles is often followed by an electrostatic precipitator. The precipitator should be reported as secondary control equipment. A device installed primarily for removal of one pollutant may also remove another pollutant. In this case the code for the control device would be entered as primary control equipment for the pollutant it is intended to remove and as secondary equipment for the pollutant which it incidentally removes. When this situation occurs, the control device would be entered in the secondary control field with a zero entered in the primary control field for the pollutant which is incidentally removed. Enter the appropriate code or leave the field blank. For control equipment, enter the code. For no control equipment, zero fill. If status is unknown, leave blank. The entry must be right justified.

### ESTIMATED CONTROL EFFICIENCY - COLUMNS 39-41

The overall collection efficiencies in weight percentage of all control equipment at the source. Assume that the pollutant load entering the control equipment is the normal, uncontrolled quantity for that specific process. Note that the triangle on the coding form indicates an implied decimal point.

### ESTIMATED EMISSIONS - COLUMNS 42-48

Enter the annual, controlled emissions from the point source in tons per year. Only values of 25,000 tons or less per year are valid. Values between 25,001 and 800,000 tons per year cause a conditional message to be printed but are accepted. Values above 800,000 are rejected. The entry must be right justified.

### MEASURED EMISSIONS - COLUMNS 49-55

Enter the actual measured annual, controlled emissions in tons per year. The entry must be right justified.

### ALLOWABLE EMISSIONS - COLUMNS 56-62

Enter the maximum emissions, in tons per year, that the source is legally allowed to discharge into the atmosphere. Values above 25,000 will cause a conditional diagnostic message to be printed. The entry must be right justified.

EMISSIONS UNITS - COLUMN 63

This field is not used at present; in the future this field will allow emissions to be coded in units other than the NEDS units.

ESTIMATION METHOD - COLUMN 64

Enter the method used to ascertain the estimated emissions. The valid codes are:

0 - Not applicable (emissions are negligible)
1 - Stack test results or other emission measurement
2 - Material balance
3 - Calculated emissions using the Federal emission factor
4 - Guess
5 - Calculated emissions using a special emission factor other than that given for the SCC
6 - New construction, not yet operational
7 - Facility closed, operations ceased

TEST METHOD - COLUMN 65

Enter any user-defined code for the method used to ascertain the measured emissions. The field must be numeric.

COLUMNS 66-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 13.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be blank.

### 4.2.4 POINT RECORD CARD 14

COLUMNS 1-20

These fields are described in detail for plant record card 01 and point record card 11.

NEDS P7 POINT COMMENT - COLUMNS 21-72

Enter information to be transmitted on a NEDS P7 card. The entry must be left justified.

COLUMNS 73-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 14.

ACTION CODE - COLUMN 80

Enter A (add), or C (change). D (delete) is not valid on a card 14. This field must not be blank.

## 4.3 SCC RECORD

The SCC record contains emission factor and identifying information for an individual machine process for a point.

### 4.3.1 SCC RECORD CARD 21

COLUMNS 1-20

These fields are described in detail for plant record card 01 and point record card 11.

SCC - COLUMNS 21-28

The Source Classification Code (SCC) identifies the type of combustion or process. The code is an eight-digit number divided into four levels (I, II, III, and IV) to assist in determining and entering the correct process definition. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 2.7.0, for the SCC codes. A maximum of 15 SCC's may be used to describe a point. The entry must be right justified, zero filled, with no blanks.

SCC SEQUENCE NUMBER - COLUMNS 29-30

This field allows the user to specify duplicate SCC's for a given point. If only one record is needed for an SCC, the SCC sequence number should be 00. Additional records should be numbered. The entry must be right justified, zero filled with no blanks.

BEC - COLUMNS 31-35

The first three characters indicate the basic equipment classification code. The last two characters are used to number units at the same source. The field must be numeric. A listing of BEC codes can be found in the Air Pollution Manual of Coding: A Coding System for Identification of Basic Equipment and Control Devices Used in Industrial Processes, Peter Loquercio and Stanley, U.S. Dept. of HEW, Public Health Service, National Center for Air Pollution Control, 1968.

FUEL UNITS - COLUMN 36

This field is not used at the present time. Future expansion of the system will allow the user to specify the fuel process rate in units other than the NEDS units.

FUEL, PROCESS, SOLID WASTE OPERATING RATE - COLUMNS 37-43

Enter the average annual fuel, process, or solid waste operating rate. The emission factor file prescribes the units to be used for each SCC. The entry must be right justified.

MAXIMUM DESIGN RATE - COLUMNS 44-50

Enter the maximum hourly design rate of the most important process equipment, or the upper operating limit that generally would not be exceeded in normal practice. Units are the NEDS units for the SCC for the process, expressed as an hourly rate. Note that the triangle on the coding form indicates an implied decimal point.

SULFUR CONTENT - COLUMNS 51-53

Enter the sulfur content for combustion processes, indicated as a weight percentage. Note that the triangle on the coding form indicates an implied decimal point.

ASH CONTENT - COLUMNS 54-56

Enter the ash content for combustion processes. The ash content is indicated as a weight percentage. Note that the triangle on the coding form indicates an implied decimal point.

HEAT CONTENT - COLUMNS 57-61

Enter the heat content for combustion processes, specified in millions of BTU per SCC. The entry must be right justified.

ASH-SULFUR ORIGIN - COLUMN 62

Enter the origin of the emission factor information related to the SCC. This should match the EMF origin on SCC Record card 23. The valid codes are:

F -Federal
S - State
L - Local

ASH-SULFUR SOURCE - COLUMN 63

Enter any user-defined code to specify individual local emission factor information. This should match the EMF source on SCC Record card 23. The value 'H' is used to indicate that the emission is hand calculated and that no emission factor insertion should take place.

COLUMNS 64-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 21.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be blank.

### 4.3.2 SCC RECORD CARD 22

COLUMNS 1-30

These fields are described in detail for plant record card 01, point record card 11, and SCC record card 21.

CONFIDENTIALITY - COLUMN 31

Enter a code which indicates whether or not data for this source is considered confidential; that is, not to be released to the public. The codes are:

1 - Source is confidential.
2 - Source is not confidential.

SOURCE CODE - COLUMN 32

Enter a code which identifies the process category for the SCC. The valid codes are:

B - Boiler
P - Process
C - Other combustion unit
S - Solid waste

SOURCE DESCRIPTION - COLUMNS 33-57

Enter a brief description of the source. This field can also be used for comments. The field must be coded for SCC's ending in 97, 98, or 99. The entry must be left justified.

COLUMNS 58-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 22.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on card 22. This field must not be blank.

### 4.3.3 SCC RECORD CARD 23

COLUMNS 1-30

These fields are described in detail for plant record card 01, point record card 11, and SCC record card 21.

EMF ORIGIN - COLUMN 31

Enter the origin of the emission factor information. This should match the ash-sulfur source on card 21. The valid codes are:

F - Federal
S - State
L - Local

EMF SOURCE - COLUMN 32

Enter a user-defined code to specify individual local emission factor information. This should match the ash-sulfur source on card 21. The value 'H' is used to indicate that the emission is hand calculated and that no emission factor insertion should take place.

POLLUTANT ID - COLUMNS 33-37, 49-53

Enter the SAROAD parameter code for the pollutant whose emission factor information is being recorded. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes for a listing of SAROAD parameter codes. The entry must be right justified, zero filled, with no blanks. The pollutant ID's used for the criteria pollutants and lead are 11101 (TSP), 42101 (CO), 42401 (SO2), 42602 (NOX), 43101 (HC), and 12128 (lead).

EMISSION FACTOR - COLUMNS 38-46, 54-62

Enter statistical average of the rate at which a pollutant is released into the atmosphere as a result of some activity. The emission factors for each SCC can be found in the Compilation of Air Pollutant Emission Factors, EPA Publication No. AP-42. Note that the triangle on the coding form indicates an implied decimal point.

ASH-SULFUR CODE - COLUMNS 47, 63

Enter the code which indicates whether or not the ash or sulfur contents are to be used in the calculation of the estimated emissions. The valid codes are:

A - Ash
S - Sulfur
Blank - neither

EMF UNITS - COLUMNS 48, 64

This field is not used at present; in the future this field will allow emission factors to be coded in units other than the NEDS units.

COLUMNS 65-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 23.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be blank.

### 4.3.4 SCC RECORD CARD 24

COLUMNS 1-30

These fields are described in detail for plant record card 01, point record card 11, and SCC record card 21.

NEDS P7 SCC COMMENT - LEFT HALF COLUMNS 31-56

Enter information to be transmitted on the left half of the NEDS P7 card. The entry must be left justified.

COLUMNS 57-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 24.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on card 24. This field must not be blank.

### 4.3.5 SCC RECORD CARD 25

COLUMNS 1-30

These fields are described in detail for plant record card 01, point record card 11, and SCC record card 21.

NEDS P7 SCC COMMENT - RIGHT HALF - COLUMNS 31-56

Enter information to be transmitted on the right half of the NEDS P7 card. The entry must be left justified.

COLUMNS 57-77

These columns are not assigned; leave blank.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 25.

ACTION CODE - COLUMN 80

Enter A (add) or C (change). D (delete) is not valid on a card 25. This field must not be blank.

## 4.4 COMMENT RECORD

The comment record contains any information the user might wish to keep in his file which is not found on the other records, such as permits and registration information.

### 4.4.1 COMMENT RECORD CARD 30

COLUMNS 1-20

These fields are described in detail for plant record card 01 and point record card 11.

P&R SEQUENCE NUMBER - COLUMNS 21-22

The P&R sequence number identifies a comment for a point. Each point can have up to 99 comments, which are numbered sequentially by a P&R sequence number. Each comment can contain up to 999 lines, which are identified by a P&R line number (see the following field description). Comments are added and/or changed by line number. Individual lines can be deleted, or an entire comment can be deleted by specifying a P&R line number of 000. The entry must be right justified, zero filled, with no blanks.

P&R LINE NUMBER - COLUMNS 23-25

Each point can have up to 99 comments, which are identified by a P&R sequence number. Each of those comments can contain up to 999 lines, which are identified by a P&R line number. Each line of comment is an individual record in the EIS/PS master file and can be added, changed, or deleted. Lines are numbered sequentially within an individual comment (P&R sequence number). The entry must be right justified, zero filled, with no blanks.

L/R (COMMENT FLAG) - COLUMN 26

Enter an L for left or R for right half of a comment line. Each half contains 51 characters.

HALF COMMENT - COLUMNS 27-77

Enter information to be contained in the comment record. The entry must be left justified.

CARD NUMBER - COLUMNS 78-79

The columns are preprinted with the card number 30.

ACTION CODE - COLUMN 80

Enter A (add), C (change), or D (delete). This field must not be blank.

## 5.0 EIS/PS Emission Factor Files

The EIS/PS emission factor file is used to insert emission facator information into the master file transactions and to generate master file transactions when updates to the emission factor information is needed.

The emission factor description file is used to provide supplementary description information on the emission factor file report.

Transaction types 1, 2, and 3 are used for updating the emission factor description file, and type-4 transactions are used for updating the emission factor file. Therefore, the following transactions are required to add a new SCC to the files: one type-1 transaction, one type-2 transaction, one type-3 transaction, and one or more type-4 transactions. A maximum of 17 type-4 (pollutant) transactions is allowed by the program, the first of which must contain a zero pollutant ID. The type-4 transaction containing the zero pollutant ID allows the user to enter the ash and sulfur contents for the specified SCC. This transaction is automatically generated by PCVNEEF (EP0020) when converting NEDS transactions to EIS/PS emission factor file transactions; however, the user is required to enter the values for ash and sulfur contents since the NEDS transactions do not contain this information. Whether generated by PCVNEEF (EP0020) or supplied by the user, this type-4 transaction must be present to add a new SCC to the files.

Changing data in existing emission factor description file records requires a type-1, type-2, or type-3 transaction, depending on the data being changed. Also, any combination of the three can be used to change data in a record. Any data field can be changed, except the key field (the SCC number). However, the control date field is changed by PEMEFAC (EP0040) only if the date of the transaction is greater than the control date of the emission factor description file record.

Changing data in an existing emission factor file record requires a type-4 transaction. Any data can be changed, except the key fields (the SCC number, the origin, the source type, the pollutant ID, and the record date). However, the control date field of the record (not to be confused with the record date field, which contains the record's creation date) is changed by PEMEFAC (EP0040) only if the transaction date is greater than the control date.

Data fields in the emission factor description file records or the emission factor file records will not be changed if the corresponding data fields on the change transactions are blank.

Deleting an SCC from the emission factor description file and the emission factor file requires a type-1 delete transaction. This will cause the description record and all pollutant records associated with the specified SCC to be deleted from their respective files. Type-2 and type-3 delete transactions are invalid and will be rejected by the program.

Deleting a single pollutant record from the emission factor file requires a type-4 delete transaction. However, a type-4 delete transaction containing a zero pollutant ID is invalid and will be rejected by the program. The only way to delete an emission factor file record that contains a pollutant ID of zero is to delete the entire SCC by submitting a type-1 delete transaction for that SCC.

## 5.1 EMISSION FACTOR TRANSACTION CARD TYPE 1

CARD NUMBER - COLUMN 1

This column is preprinted with the card number 1.

ACTION CODE - COLUMN 2

Enter A (add), C (change), or D (delete). This field should not be left blank.

SCC NUMBER - COLUMNS 3-10

Enter the source classification code number that describes the process. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.7.0, for SCC numbers. The entry must be right justified, zero filled, with no blanks.

COLUMNS 11-17

These fields are not assigned; leave blank.

DATE - COLUMNS 18-22

Enter the Julian date of the transaction in the form YYDDD. The entry must be right justified, zero filled, with no blanks.

NEDS CATEGORIES - COLUMNS 23-73

Enter information pertaining to the process associated with a given SCC. The field is divided into 4 subfields each of which is 17 characters in length. The 4 subfields contain descriptions of the 4 parts of the SCC number. The fourth subfield is on card 2. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.7.0, for the given SCC. The fields must be left justified.

COLUMNS 74-80

These columns are not used; leave blank.

## 5.2 EMISSION FACTOR TRANSACTIONS CARD TYPE 2

CARD NUMBER - COLUMN 1

This column is preprinted with the card number 2.

ACTION CODE - COLUMN 2

Enter A (add) or C (change). D (delete) is not valid on card 2. This field should not be left blank.

COLUMNS 3-39

These fields are described in detail for card 1.

UNITS DESCRIPTION - COLUMNS 40-74

Enter information pertaining to the unit of measure code which describes the units in which the emission factor is calculated. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.7.0, for the given SCC. The entry must be left justified. Characters 1 to 35 are entered on card 2 and characters 36 to 69 are entered on card 3.

COLUMNS 75-80

These columns are not assigned; leave blank.

## 5.3 EMISSION FACTOR TRANSACTION CARD TYPE 3

CARD NUMBER - COLUMN 1

This column is preprinted with the card number 3.

ACTION CODE - COLUMN 2

Enter A (add) or C (change). D (delete) is not valid on card 3. This field should not be left blank.

COLUMNS 3-22

These fields are described in detail for Emission Factor Transaction card type 1.

UNITS DESCRIPTION - COLUMNS 23-56

The second half of the UNITS DESCRIPTION information as described in detail for Emission Factor Transactions card type 2, columns 40-74 are entered here.

COLUMNS 57-80

These columns are not assigned; leave blank.

## 5.4 EMISSION FACTOR TRANSACTIONS CARD TYPE 4

CARD NUMBER - COLUMN 1

This column is preprinted with the card number 4.

ACTION CODE - COLUMN 2

Enter A (add), C (change), or D (delete). This field should not be left blank.

SCC NUMBER - COLUMNS 3-10

Enter the source classification code number that describes the process. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes, Section 3.7.0, for SCC numbers. The entry must be right justified, zero filled, with no blanks.

ORIGIN - COLUMN 11

Enter the origin of the emission factor information. The valid codes are:

F - Federal
S - State
L - Local

SOURCE - COLUMN 12

Enter a user-defined code to specify individual local emission factor information.

POLLUTANT ID - COLUMNS 13-17

The SAROAD parameter code of the pollutant whose emissions are being measured. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes for a listing of SAROAD parameter codes. The entry must be right justified, zero filled, with no blanks. The pollutant ID's used for the criteria pollutants are 11101 (TSP), 42101 (CO), 42401 (SO2), 42602 (NOX), 43101 (HC), and 12128 (lead).

DATE - COLUMNS 18-22

Enter the Julian date of the transaction in the form YYDDD. The entry must be right justified, zero filled, with no blanks.

POLLUTANT NAME - COLUMNS 23-42

Enter the actual name or the chemical representation of the pollutant referred to by the pollutant ID. Refer to the AEROS Manual Series, Volume V: AEROS Manual of Codes. The field must be left justified.

NEDS V FLAGS - COLUMNS 43-44

This field is reserved for future use; leave blank.

ASH FLAG - COLUMN 45

Enter the code to indicate whether or not the ash content is to be used in the calculation of the estimated emissions. The valid codes are: A - Ash content to be used Blank - Ash content not to be used

SULFUR FLAG - COLUMN 46

Enter the code to indicate whether or not the sulfur content is to be used in the calculation of the estimated emissions. The valid codes are:

S -Sulfur content to be used
Blank -Sulfur content not to be used

UNIT OF MEASURE - COLUMNS 47-48

This field is not used at present; in the future this field will allow emission factors to be coded in units other than the NEDS units. Leave blank.

EMISSION FACTOR - COLUMNS 49-57

Enter a statistical average of the rate at which a pollutant is released into the atmosphere as a result of some activity. The field must be numeric. The emission factors for each SCC can be found in Compilation of Air Pollutant Emission Factors, EPA Publication No. AP-42. Note that the triangle on the coding form indicates an implied decimal point.

ASH CONTENT - COLUMNS 58-60

Enter a weight percentage which indicates the ash content for combustion processes. Note that the triangle on the coding form indicates an implied decimal point.

SULFUR CONTENT - COLUMNS 61-63

Enter a weight percentage which indicates the sulfur content for combustion processes. Note that the triangle on the coding form indicates an implied decimal point.

CONTROL DEVICE EFFICIENCY - COLUMNS 64-66

Enter the overall collection efficiencies in weight percentage of all control equipment at the source. Assume that the pollutant load entering the control equipment is the normal, uncontrolled quantity for that specific process. Note that the triangle on the coding form indicates an implied decimal point.

CONFIDENCE LEVEL - COLUMN 67

Enter a user-defined value to show the reliability of the emission factor. The field must be numeric.

COLUMNS 68-80

These fields are not assigned; leave blank.

# Appendix A
## EIS/AS Transaction Field Tables

The following symbols are used in all tables in Appendix A:

R - Required
Blank - Optional
X - Not allowed
N - Numeric
A - Alphanumeric
* Field can be
  deleted with *
C - Required, but not mandatory (conditional)
W - Required, but not mandatory (warning)

Table A-1. DESCRIPTION - CARD 1

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| DATE | 15 - 19 | 5 | N | R | | | |
| AIR BASIN | 20 - 22 | 3 | N | | | X | * |
| SMSA | 23 - 26 | 4 | A | | | X | * |
| GEOGRAPHIC NAME | 27 - 46 | 20 | A | | | X | * |
| MAJOR ACTIVITY | 47 - 66 | 20 | A | | | X | * |
| ASSOCIATED PLANT ID | 67 - 70 | 4 | A | | | X | * |
| SIP BASE YEAR | 71 - 72 | 2 | N | | | X | * |
| PROJECTED YEAR | 73 - 74 | 2 | N | | | X | * |
| RURAL POPULATION PERCENTAGE | 75 - 76 | 2 | N | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-2. DESCRIPTION - CARD 2

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| POPULATION | 15 - 22 | 8 | N | | | X | * |
| AQCR NAME | 23 - 76 | 54 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-3. DESCRIPTION - CARD 3

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| SUBALLOCATION TECHNIQUE | 15 - 16 | 2 | A | | | X | * |
| SUBALLOCATION TECHNIQUE DESCRIPTION | 17 - 36 | 20 | A | | | X | * |
| DEFINED AREA CODE | 37 - 39 | 3 | N | | | X | * |
| SULFUR CONTENTS | 40 - 47 | | | | | | |
| ANTHRACITE COAL | 40 - 41 | 2[1] | N | | | X | * |
| BITUMINOUS COAL | 42 - 43 | 2[1] | N | | | X | * |
| DISTILLATE OIL | 44 - 45 | 2[1] | N | | | X | * |
| RESIDUAL OIL | 46 - 47 | 2[1] | N | | | X | * |
| ASH CONTENTS | 48 - 53 | | | | | | |
| ANTHRACITE COAL | 48 - 50 | 3[1] | N | | | X | * |
| BITUMINOUS COAL | 51 - 53 | 3[1] | N | | | X | * |
| UTM COORDINATES | 54 - 75 | | | | | | |
| ZONE | 54 - 55 | 2 | N | | | X | * |
| | 65 - 66 | 2 | N | | | X | * |
| HORIZONTAL | 56 - 59 | 4[1] | N | | | X | * |
| | 67 - 70 | 4[1] | N | | | X | * |
| VERTICAL | 60 - 64 | 5[1] | N | | | X | * |
| | 71 - 75 | 5[1] | N | | | X | * |

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[1] A one-digit decimal position is assumed.

TABLE A-3. DESCRIPTION - CARD 3

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| FILLER | 76 | 1 | NOT USED | | | | |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

### Table A-4. DESCRIPTION - CARD 4

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| UTM COORDINATES | 15 - 58 | | | | | | |
| ZONE | 15 - 16 | 2 | N | | | X | * |
| | 26 - 27 | 2 | N | | | X | * |
| | 37 - 38 | 2 | N | | | X | * |
| | 48 - 49 | 2 | N | | | X | * |
| HORIZONTAL | 17 - 20 | 4[1] | N | | | X | * |
| | 28 - 31 | 4[1] | N | | | X | * |
| | 39 - 42 | 4[1] | N | | | X | * |
| | 50 - 53 | 4[1] | N | | | X | * |
| VERTICAL | 21 - 25 | 5[1] | N | | | X | * |
| | 32 - 36 | 5[1] | N | | | X | * |
| | 43 - 47 | 5[1] | N | | | X | * |
| | 54 - 58 | 5[1] | N | | | X | * |
| SOURCE TYPE | 59 | 1 | A | | | X | * |
| LENGTH OR AREA | 60 - 66 | 7[2] | N | | | X | * |
| LENGTH/AREA UNITS CODE | 67 - 68 | 2 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

[2] A two-digit decimal position is assumed.

Table A-5. DESCRIPTION - CARD 5

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| SIP ESTIMATES | 15 - 37 | | | | | | |
| TSP | 15 - 19 | 5 | N | | | X | * |
| SO2 | 20 - 23 | 4 | N | | | X | * |
| NOX | 24 - 27 | 4 | N | | | X | * |
| HC | 28 - 32 | 5 | N | | | X | * |
| CO | 33 - 37 | 5 | N | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-6. DESCRIPTION - CARD 6

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| SUBCARD NUMBER | 15 | 1 | N | | | | |
| POPULATION CODE | 16 | 1 | N | | | X | * |
| GAS FUEL, LIGHT VEHICLES | 17 - 23 | 7 | N | | | X | * |
| GAS FUEL, HEAVY VEHICLES | 24 - 29 | 6 | N | | | X | * |
| DIESEL FUEL, HEAVY VEHICLES | 30 - 35 | 6 | N | | | X | * |
| VEHICLE MILES, LIMITED ACCESS | 36 - 41 | 6 | N | | | X | * |
| VEHICLE MILES, RURAL | 42 - 47 | 6 | N | | | X | * |
| VEHICLE MILES, SUBURBAN | 48 - 53 | 6 | N | | | X | * |
| VEHICLE MILES, URBAN | 54 - 60 | 7 | N | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-7. DESCRIPTION - CARD 7

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| POLLUTANT ID | 15 - 19 | 5 | N | R | R | R | |
| POLLUTANT ID | 43 - 47 | 5 | N | (R) | (R) | (R) | |
| POLLUTANT NAME | 20 - 34 | 15 | A | | | X | * |
| POLLUTANT NAME | 48 - 62 | 15 | A | | | X | * |
| ATTAINMENT STATUS | 35 | 1 | A | | | X | * |
| ATTAINMENT STATUS | 63 | 1 | A | | | X | * |
| AQMA NUMBER | 36 - 41 | 6 | A | | | X | * |
| AQMA NUMBER | 64 - 69 | 6 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| G CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-8. CATEGORY - CARD 1

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| CATEGORY DESCRIPTION | 20 - 44 | 25 | A | | | X | * |
| YEAR OF INFORMATION | 45 - 46 | 2 | N | | | X | * |
| PROCESS RATE | 47 - 55 | 9 | N | | | X | * |
| CATEGORY ADJUSTMENT VALUE | 56 - 62 | 7 | N | | | X | * |
| UNITS CODE | 63 - 64 | 2 | N | | | X | * |
| UNITS CODE DESCRIPTION | 65 - 76 | 12 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| DISAGGREGATION TYPE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-9. CATEGORY - CARD 2

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| UNIFORM MONTHLY THRUPUTS | 20 | 1 | A | W | | | |
| MONTHLY THRUPUT PERCENTAGE | 21 - 44 | 24 | N | | | X | * |
| HOURS PER DAY | 45 - 46 | 2 | N | | | X | * |
| DAYS PER WEEK | 47 | 1 | N | | | X | * |
| WEEKS PER YEAR | 48 - 49 | 2 | N | | | X | * |
| THRUPUT RATIO | 50 - 53 | 4[1] | N | | | X | * |
| MAXIMUM HOURLY THRUPUT | 54 - 63 | 10[2] | N | | | X | * |
| DATA CONFIDENCE RATING | 64 | 1 | N | W | | X | * |
| NITROGEN CONTENT | 65 - 67 | 3[2] | N | | | X | * |
| SULFUR CONTENT | 68 - 69 | 2[1] | N | | | X | * |
| ASH CONTENT | 70 - 72 | 3[1] | N | | | X | * |
| HEAT CONTENT | 73 - 76 | 4 | N | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| DISAGGREGATION TYPE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

[2] A three-digit decimal position is assumed.

Table A-10. CATEGORY - CARD 3

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| UNIFORM HOURLY THRUPUTS | 20 | 1 | A | W | | X | * |
| HOURLY THRUPUT PERCENTAGES | 21 - 68 | 48 | N | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| DISAGGREGATION TYPE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-11. CATEGORY - CARD 4

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| NEDS A7 COMMENT | 20 - 53 | 34 | A | | | X | * |
| INFORMATION SOURCE CODE | 54 | 1 | A | | | X | * |
| INFORMATION SOURCE NARRATIVE | 55 - 74 | 20 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| DISAGGREGATION TYPE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-12. CATEGORY - CARD 5

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| POLLUTANT ID | 20 - 24 | 5 | N | R | R | R | |
| EMISSION FACTOR | 25 - 34 | 10[1] | N | | | X | * |
| EMISSION FACTOR CONFIDENCE RATING | 35 | 1 | N | W | | X | * |
| EMISSION FACTOR ORIGIN | 36 | 1 | A | | | X | * |
| EMISSION FACTOR SOURCE | 37 | 1 | A | | | X | * |
| POLLUTANT SPECIFIC DATA | 38 - 47 | 10 | A | | | X | * |
| NEDS A7 EMISSION | 48 - 54 | 7 | N | | | X | * |
| POLLUTANT NAME | 55 - 69 | 15 | A | | | X | * |
| SUBALLOCATION TYPE | 77 | 1 | A | R | R | R | |
| DISAGGREGATION TYPE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A three-digit decimal position is assumed.

### Table A-13. COMMENT RECORD

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| SUBALLOCATION NUMBER | 10 - 14 | 5 | N | R | R | R | |
| CATEGORY NUMBER | 15 - 17 | 3 | N | R | R | R | |
| CATEGORY DISAGGREGATION NUMBER | 18 - 19 | 2 | N | R | R | R | |
| LINE NUMBER | 20 - 21 | 2 | N | R | R | R | |
| HALF COMMENT | 23 - 72 | 50 | A | | | X | * |
| R CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table A-14. NEDS A6 COMMENT

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| NEDS A6 COMMENT | 10 - 77 | 68 | A | | | X | * |
| N CODE | 78 | 1 | A | R | R | R | |
| CARD NUMBER | 79 | 1 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

# Appendix B
## EIS/PS Transaction Field Tables

The following symbols are used in all tables in Appendix B:

R - Required
Blank - Optional
X - Not allowed
N - Numeric
A - Alphanumeric
* Field can be
  deleted with *
C - Required, but not mandatory (conditional)
W - Required, but not mandatory (warning)

Table B-1. CARD 01 - PLANT INFORMATION

| FIELD NAME | RECORD POSITIONS | ALPHA/ LENGTH | NUMERIC | ADD | CHANGE | FIELD DELETE | DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| CONTROL REGION | 19 - 21 | 3 | A | | | X | * |
| LOCAL CONTROL | 22 - 23 | 2 | A | | | X | * |
| USER PLANT ID | 24 - 35 | 12 | A | | | X | * |
| CITY | 36 - 39 | 4 | N | | | X | * |
| UTM ZONE | 40 - 41 | 2 | N | C | | X | * |
| OWNERSHIP CODE | 42 | 1 | A | | | X | * |
| CONTACT PERSON | 43 - 57 | 15 | A | | | X | * |
| TELEPHONE | 58 - 67 | 10 | N | | | X | * |
| PRINCIPAL PRODUCT | 68 - 77 | 10 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-2. CARD 02 - PLANT INFORMATION

| FIELD NAME | RECORD POSITIONS | ALPHA/ LENGTH | NUMERIC | ADD | CHANGE | FIELD DELETE | DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NAME/ ADDRESS | 19 - 66 | 48 | A | R | | X | |
| NUMBER OF EMPLOYEES | 67 - 70 | 4 | N | | | X | * |
| PROPERTY AREA | 71 - 76 | 6[1] | N | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

Table B-3. CARD 03 - PLANT INFORMATION

| FIELD NAME | RECORD POSITIONS | ALPHA/ LENGTH | NUMERIC | ADD | CHANGE | FIELD DELETE | DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| MAILING ADDRESS | 19 - 66 | 48 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-4. CARD 04 - PLANT P7 COMMENT

| FIELD NAME | RECORD POSITIONS | ALPHA/ LENGTH | NUMERIC | ADD | CHANGE | FIELD DELETE | DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS P7 PLANT COMMENT | 19 - 70 | 52 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-5. CARD 11 - POINT INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| USER POINT ID | 21 - 23 | 3 | A | | | X | * |
| SIC | 24 - 27 | 4 | N | C | | X | * |
| IPP | 28 - 29 | 2 | N | | | X | * |
| UTM HORIZONTAL | 30 - 33 | 4[1] | N | C | | X | * |
| UTM VERTICAL | 34 - 38 | 5[1] | N | C | | X | * |
| LATITUDE | 39 - 44 | 6 | N | | | X | * |
| LONGITUDE | 45 - 51 | 7 | N | | | X | * |
| ANNUAL THRUPUT | 52 - 59 | 8 | N | | | X | * |
| OPERATING RATE | 60 - 64 | 5 | N | | | X | * |
| BOILER CAPACITY | 65 - 69 | 5 | N | | | X | * |
| SPACE HEAT | 70 - 72 | 3[1] | N | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

Table B-6. CARD 12 - POINT INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| STACK HEIGHT | 21 - 24 | 4 | N | | | X | * |
| STACK DIAMETER | 25 - 27 | 3[1] | N | | | X | * |
| TEMPERATURE | 28 - 31 | 4 | N | | | X | * |
| FLOW RATE | 32 - 38 | 7 | N | | | X | * |
| VELOCITY | 39 - 43 | 5 | N | | | X | * |
| PLUME HEIGHT | 44 - 47 | 4 | N | | | X | * |
| POINTS WITH COMMON STACK | 48 - 51 | 4 | A/N | | | X | * |
| COMPLIANCE STATUS | 52 | 1 | N | | | X | * |
| COMPLIANCE SCHEDULE | 53 - 56 | 4 | N | | | X | * |
| COMPLIANCE UPDATE | 57 - 62 | 6 | N | | | X | * |
| ECAP | 63 | 1 | N | | | X | * |
| CONTROL REGULATIONS | 64 - 75 | 12 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

Table B-7. CARD 13 - POINT POLLUTANT INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| POLLUTANT ID | 21 - 25 | 5 | N | R | R | R | |
| CONTROL EQUIPMENT COST | 26 - 32 | 6 | N | | | X | * |
| PRIMARY CONTROL EQUIPMENT | 33 - 35 | 3 | N | | | X | * |
| SECONDARY CONTROL EQUIPMENT | 36 - 38 | 3 | N | | | X | * |
| ESTIMATED CONTROL EFFICIENCY | 39 - 41 | 3[1] | N | | | X | * |
| ESTIMATED EMISSIONS | 42 - 48 | 7 | N | | | X | * |
| MEASURED EMISSIONS | 49 - 55 | 7 | N | | | X | * |
| ALLOWABLE EMISSIONS | 56 - 62 | 7 | N | | | X | * |
| EMISSIONS UNITS | 63 | 1 | N | | | X | * |
| ESTIMATION METHOD | 64 | 1 | N | | | X | * |
| TEST METHOD | 65 | 1 | N | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A one-digit decimal position is assumed.

Table B-8. CARD 14 - POINT P7 COMMENT

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| NEDS P7 POINT COMMENT | 21 - 72 | 52 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-9. CARD 21 - SCC INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| SCC | 21 - 28 | 8 | N | R | R | R | |
| SCC SEQUENCE NUMBER | 29 - 30 | 2 | N | R | R | R | |
| BEC | 31 - 35 | 5 | N | | | X | * |
| FUEL UNITS | 36 | 1 | N | | | X | * |
| OPERATING RATE | 37 - 43 | 7 | N | | | X | * |
| MAXIMUM DESIGN RATE | 44 - 50 | 7[1] | N | | | X | * |
| SULFUR CONTENT | 51 - 53 | 3[2] | N | | | X | * |
| ASH CONTENT | 54 - 56 | 3[3] | N | | | X | * |
| HEAT CONTENT | 57 - 61 | 5 | N | | | X | * |
| ASH-SULFUR ORIGIN | 62 | 1 | A | R | | X | * |
| ASH-SULFUR SOURCE | 63 | 1 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A three-digit decimal position is assumed.

[2] A two-digit decimal position is assumed.

[3] A one-digit decimal position is assumed.

Table B-10. CARD 22 - SCC INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| SCC | 21 - 28 | 8 | N | R | R | R | |
| SCC SEQUENCE NUMBER | 29 - 30 | 2 | N | R | R | R | |
| CONFIDENTIALITY | 31 | 1 | N | | | X | * |
| SOURCE CODE | 32 | 1 | A | | | X | * |
| SOURCE DESCRIPTION | 33 - 57 | 25 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-11. CARD 23 - SCC POLLUTANT INFORMATION

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| SCC | 21 - 28 | 8 | N | R | R | R | |
| SCC SEQUENCE NUMBER | 29 - 30 | 2 | N | R | R | R | |
| EMF ORIGIN | 31 | 1 | A | R | | | |
| EMF SOURCE | 32 | 1 | A | | | | |
| POLLUTANT ID | 33 - 37 | 5 | N | R | R | R | |
| | 49 - 53 | 5 | N | (R) | (R) | (R) | |
| EMISSION FACTOR | 38 - 46 | 7[1] | N | | | X | * |
| | 54 - 62 | 7[1] | N | | | X | * |
| ASH-SULFUR CODE | 47 | 1 | A | | | X | * |
| | 63 | 1 | A | | | X | * |
| EMF UNITS | 48 | 1 | N | | | X | * |
| | 64 | 1 | N | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

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[1] A three-digit decimal position is assumed.

Table B-12. CARD 24 - SCC P7 COMMENT

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| SCC | 21 - 28 | 8 | N | R | R | R | |
| SCC SEQUENCE NUMBER | 29 - 30 | 2 | N | R | R | R | |
| NEDS P7 SCC COMMENT - LEFT HALF | 31 - 56 | 26 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

Table B-13. CARD 25 - SCC P7 COMMENT

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| SCC | 21 - 28 | 8 | N | R | R | R | |
| SCC SEQUENCE NUMBER | 29 - 30 | 2 | N | R | R | R | |
| NEDS P7 SCC COMMENT - RIGHT HALF | 31 - 56 | 26 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

TABLE B-14. CARD 30 - COMMENT

| FIELD NAME | RECORD POSITIONS | LENGTH | ALPHA/ NUMERIC | ADD | CHANGE | DELETE | FIELD DELETE |
|---|---|---|---|---|---|---|---|
| STATE | 1 - 2 | 2 | N | R | R | R | |
| COUNTY | 3 - 6 | 4 | N | R | R | R | |
| AQCR | 7 - 9 | 3 | N | R | R | R | |
| PLANT ID | 10 - 13 | 4 | A/N | R | R | R | |
| DATE | 14 - 18 | 5 | N | R | R | R | |
| NEDS POINT ID | 19 - 20 | 2 | A/N | R | R | R | |
| P&R SEQUENCE NUMBER | 21 - 22 | 2 | N | R | R | R | |
| P&R LINE NUMBER | 23 - 25 | 3 | N | R | R | R | |
| L/R (COMMENT FLAG) | 26 | 1 | A | R | R | | |
| HALF COMMENT | 27 - 77 | 51 | A | | | X | * |
| CARD NUMBER | 78 - 79 | 2 | N | R | R | R | |
| ACTION CODE | 80 | 1 | A | R | R | R | |

# Appendix C

## EIS/AS Input Forms

AGENCY__________

# EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## DESCRIPTION TRANSACTIONS 1-6

BY__________

DATE__________

PAGE __ OF ______

| STATE | COUNTY | AQCR | SUBALLOC NBR |
|---|---|---|---|
| 1 | 3 | 7 | 10 14 |
| | | | |

| DATE YR | DATE DAY | AIR BASIN | SMSA | GEOGRAPHIC NAME | MAJOR ACTIVITY | ASSOC PLANT ID | SIP BASE YR | PROJ YR | % RUR | C/S | | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 17 | 20 | 23 | 27 | 47 | 67 | 71 | 73 | 75 | 77 | 78 | 79 | 80 |
| | | | | | | | | | | | G | 1 | |

| POPULATION | AQCR NAME | C/S | | NBR | ACTION |
|---|---|---|---|---|---|
| 15 | 23 | 77 | 78 | 79 | 80 |
| | | | G | 2 | |

| | | | SULFUR CONTENTS | | | | ASH CONTENTS | | UTM COORDINATES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUB TECH | SUBALLOCATION TECHNIQUE DESCRIPTION | DEF AREA CODE | ANTH COAL | BITM COAL | DIST OIL | RESID OIL | ANTH COAL | BITUM COAL | ZONE 1 | HORIZ 1 | VERT 1 | ZONE 2 | HORIZ 2 | VERT 2 | | C/S | | NBR | ACTION |
| 15 | 17 | 37 | 40 | 42 | 44 | 46 | 48 | 51 | 54 | 56 | 60 | 65 | 67 | 71 | | 77 | 78 | 79 | 80 |
| | | | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | | ▲ | ▲ | | ▲ | ▲ | | | G | 3 | |

| UTM COORDINATES | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZONE 3 | HORIZ 3 | VERT 3 | ZONE 4 | HORIZ 4 | VERT 4 | ZONE 5 | HORIZ 5 | VERT 5 | ZONE 6 | HORIZ 6 | VERT 6 | SOURCE | LENGTH OF LINE, LINK, OR AREA | LLA UNITS CODE | | C/S | | NBR | ACTION |
| 15 | 17 | 21 | 26 | 28 | 32 | 37 | 39 | 43 | 48 | 50 | 54 | 59 | 60 | 67 | | 77 | 78 | 79 | 80 |
| | ▲ | ▲ | | ▲ | ▲ | | ▲ | ▲ | | ▲ | ▲ | | ▲ | | | | G | 4 | |

| SIP ESTIMATES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TSP | SO2 | NOX | HC | CO | | C/S | | NBR | ACTION |
| 15 | 20 | 24 | 28 | 33 | 37 | 77 | 78 | 79 | 80 |
| | | | | | | | G | 5 | |

| SUB CD | POP CD | LIGHT VEHICLE GAS | HEAVY VEHICLE GAS | HEAVY VEHICLE DIESEL | LIMITED ACCESS ROADS/MVM | RURAL ROADS MVM | SUBURBAN ROADS/MVM | URBAN ROADS MVM | | C/S | | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 16 | 17 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 77 | 78 | 79 | 80 |
| | | | | | | | | | | | G | 6 | |

# EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
# COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
# DESCRIPTION TRANSACTION 7

AGENCY______

BY______
DATE______
PAGE___OF______

| STATE 1 | COUNTY 3 | AQCR 7 | SUBALLOC NBR 10 14 |
|---|---|---|---|
| | | | |

| POLLUTANT ID 15 | POLLUTANT NAME 20 | ATTN 35 | AQMA NUMBER 36 41 | | POLLUTANT ID 43 | POLLUTANT NAME 48 | ATTN 63 | AQMA NUMBER 64 69 | | C/S 77 | 78 | NBR 79 | ACTION 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | G | 7 | |
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AGENCY ______________

## EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## CATEGORY TRANSACTIONS

BY ______________
DATE ______________
PAGE ___ OF ______________

| STATE | COUNTY | AQCR | SUBALLOC NBR | CATEG NBR | DISAG NBR |
|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 15 | 18 |
| | | | | | |

| CATEGORY DESCRIPTION | YEAR | PROCESS RATE | CATEGORY ADJUSTMENT | UNIT CODE | UNITS CODE DESCRIPTION | C/S | A/D | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 45 | 47 | 56 | 63 | 65 | 77 | 78 | 79 | 80 |
| | | | | | | | | 1 | |

| UNIFM | MONTHLY THRUPUT PERCENTAGE JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | HRS PER DAY | OP/WK | WKS PER YR | THRUPUT RATIO | MAXIMUM HOURLY THRUPUT | CONF | NITRO CONT | SULF CONT | ASH CONT | HEAT CONTENT | C/S | A/D | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 48 | 50 | 54 | 64 | 65 | 68 | 70 | 73 | 77 | 78 | 79 | 80 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

| UNIFHR | HOURLY THRUPUT PERCENTAGE 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | C/S | A/D | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 | 53 | 55 | 57 | 59 | 61 | 63 | 65 | 67 | | 77 | 78 | 79 | 80 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |

| NEDS A7 COMMENT | SOURCE | SOURCE OF INFORMATION NARRATIVE | | C/S | A/D | NBR | ACTION |
|---|---|---|---|---|---|---|---|
| 20 | 54 | 55 76 | | 77 | 78 | 79 | 80 |
| | | | | | | 4 | |

| POLLUTANT ID | EMISSION FACTOR | CONF | ORG | SRC | POLLUTANT SPECIFIC DATA | NEDS A7 EMISSION | POLLUTANT NAME | | C/S | A/D | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 25 | 35 | 36 | 37 | 38 | 48 | 55 68 | | 77 | 78 | 79 | 80 |
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AGENCY______________

## EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## COMMENT TRANSACTIONS

BY______________

DATE______________

PAGE __ OF__________

| STATE 1 | COUNTY 3 | AQCR 7 | SUBALLOC NBR 10 | CATEG NBR 15 | DISAG NBR 18 |
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| LINE NBR 20 | HALF COMMENT 23 … 72 | | 78 | NBR 79 | ACTION 80 |
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AGENCY__________

# EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## NEDS A6 COMMENT

BY__________
DATE __________
PAGE ____ OF __________

| STATE | COUNTY | AQCR | NEDS A6 COMMENT | | | ACTION |
|---|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 78 | 79 | 80 |
| | | | | N | 0 | |
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| | | | | N | 0 | |

| STATE | COUNTY | SUBALLOC | CATEG NBR | DISAG NBR |
|---|---|---|---|---|
| 1 | 3 | 7 | 12 | 15 |
|  |  |  |  |  |

| DATE |  |
|---|---|
| YR | DAY |
| 24 | 26 |
|  |  |

| FLAGS |  |  | NITRO CONT | SULF CONT | ASH CONT | CATEGORY DESCRIPTION |  | NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|
| N | S | A |  |  |  |  |  |  |  |
| 29 | 30 | 31 | 32 | 35 | 38 | 41 | 65 | 79 | 80 |
|  |  |  |  |  |  |  |  | 1 |  |

| COUNTY NAME |  | NBR | ACTION |
|---|---|---|---|
| 29 | 48 | 79 | 80 |
|  |  | 2 |  |

| ORG | SRC | POLLUTANT ID |
|---|---|---|
| 17 | 18 | 19 |
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| EMISSION FACTOR | CONF | POLLUTANT NAME | POLLUTANT SPECIFIC DATA |  | NBR | ACTION |
|---|---|---|---|---|---|---|
| 29 | 39 | 40 | 55 | 64 | 79 | 80 |
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AGENCY ____________

## EMISSIONS INVENTORY SYSTEM/AREA SOURCE (EIS/AS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## RETRIEVAL SPECIFICATIONS

BY ____________
DATE ____________
PAGE ___ OF ____

SEE BACK OF FORM FOR VALID CODES

| | USER KEYWORD | DESC | CAT | COMM |
|---|---|---|---|---|
| 1 8 | 10 13 | 15 | 17 | 19 |
| $$SELECT | | | | |

| SUBJECT NAME | NF | RO | OBJECT NAME (LITERALS MUST BE ENCLOSED IN SINGLE QUOTES) | BO |
|---|---|---|---|---|
| 1 31 | 33 | 35 | 37 67 | 69 71 |
| | | | | |
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| $$END |

## EMISSIONS INVENTORY SYSTEM / AREA SOURCE (EIS/AS) RETRIEVAL SPECIFICATIONS

PAGE 2

VALID VALUES FOR NEGATION FLAG (NF):
BLANK, N
RELATIONAL OPERATOR (RO):
=EQUAL
>GREATER THAN
<LESS THAN
BOOLEAN OPERATOR (BO):
AND, OR, BLANK
TYPE: N = NUMERIC
A = ALPHANUMERIC

DATA NAMES VALID FOR ALL RECORDS

| NAME | LENGTH | TYPE |
|---|---|---|
| AQCR | 3 | N |
| CATEGORY-DISAGGREG-NBR | 2 | N |
| CATEGORY-NUMBER | 3 | N |
| COUNTY | 4 | N |
| GEOG-SUBALLOCATION-NBR | 5 | N |
| LINE-NUMBER | 3 | N |
| RECORD-TYPE | 2 | A |
| RECORD-TYPE-KEY | 1 | A |
| STATE | 2 | N |

CATEGORY REPEATING DATA NAMES

| NAME | LENGTH | TYPE |
|---|---|---|
| CAT-POLLUTANT-ID | 5 | N |
| CONFIDENCE-RATING | 1 | N |
| EMF-CONFIDENCE-RATING | 1 | N |
| EMF-ORIGIN | 1 | A |
| EMF-SOURCE-CODE | 1 | A |
| EMISSIONS-ESTIMATE | 7 | N |
| EMISSION-FACTOR | 10(3) | N |
| MAXIMUM-HOURLY-EMISSION | 6 | N |
| NEDS-A7-EMISSION | 7 | N |
| POLLUTANT-SPECIFIC DATA | 10 | A |

DESCRIPTION REPEATING DATA NAMES

| NAME | LENGTH | TYPE |
|---|---|---|
| AQMA-NUMBER | 6 | A |
| ATTAINMENT-STATUS | 1 | A |
| DESC-POLLUTANT-ID | 5 | N |

CATEGORY RECORD DATA NAMES

| NAME | LENGTH | TYPE |
|---|---|---|
| APRIL-THRUPUT | 2 | N |
| ASH-PERCENTAGE | 3(1) | N |
| AUGUST-THRUPUT | 2 | N |
| CATEGORY-ADJUST | 7 | N |
| DATA-CONFIDENCE-RATING | 1 | N |
| DAYS-PER-WEEK | 1 | N |
| DECEMBER-THRUPUT | 2 | N |
| FEBRUARY-THRUPUT | 2 | N |
| HEAT-CONTENT | 4 | N |
| HOUR-O-THRUPUT | 2 | N |
| HOUR-1-THRUPUT | 2 | N |
| HOUR-2-THRUPUT | 2 | N |
| HOUR-3-THRUPUT | 2 | N |
| HOUR-4-THRUPUT | 2 | N |
| HOUR-5-THRUPUT | 2 | N |
| HOUR-6-THRUPUT | 2 | N |
| HOUR-7-THRUPUT | 2 | N |
| HOUR-8-THRUPUT | 2 | N |
| HOUR-9-THRUPUT | 2 | N |
| HOUR-10-THRUPUT | 2 | N |
| HOUR-11-THRUPUT | 2 | N |
| HOUR-12-THRUPUT | 2 | N |
| HOUR-13-THRUPUT | 2 | N |
| HOUR-14-THRUPUT | 2 | N |
| HOUR-15-THRUPUT | 2 | N |
| HOUR-16-THRUPUT | 2 | N |
| HOUR-17-THRUPUT | 2 | N |
| HOUR-18-THRUPUT | 2 | N |
| HOUR-19-THRUPUT | 2 | N |
| HOUR-20-THRUPUT | 2 | N |
| HOUR-21-THRUPUT | 2 | N |
| HOUR-22-THRUPUT | 2 | N |
| HOUR-23-THRUPUT | 2 | N |
| HOURS-PER-DAY | 2 | N |
| INFORMATION-SOURCE-CODE | 1 | A |
| JANUARY-THRUPUT | 2 | N |
| JULY-THRUPUT | 2 | N |
| JUNE-THRUPUT | 2 | N |
| MARCH-THRUPUT | 2 | N |
| MAX-HRLY-THRUPUT | 10 | A |
| MAY-THRUPUT | 2 | N |
| NITROGEN-PERCENTAGE | 3(3) | N |
| NOVEMBER-THRUPUT | 2 | N |
| OCTOBER-THRUPUT | 2 | N |
| PROCESS-RATE | 9 | N |
| SEPTEMBER-THRUPUT | 2 | N |
| SULFUR-PERCENTAGE | 2(1) | N |
| THRUPUT-RATIO | 4(1) | N |
| UNIFORM-HOURLY-THRUPUT | 1 | A |
| UNIFORM-THRUPUT | 1 | A |
| UNITS-CODE | 2 | N |
| WEEK-PER-YEAR | 2 | N |
| YEAR-OF-INFORMATION | 2 | N |

DESCRIPTION RECORD DATA NAMES

| NAME | LENGTH | TYPE |
|---|---|---|
| AIR-BASIN | 3 | N |
| ASH-ANTHRACITE-COAL | 3(1) | N |
| ASH-BITUMINOUS-COAL | 3(1) | N |
| ASSOC-PLANT-ID | 4 | N |
| DAY-CODE | 3 | N |
| DEFINED-AREA-CODE | 3 | N |
| HEAVY-DUTY-DIESEL | 6 | N |
| HEAVY-DUTY-VEHICLE | 6 | N |
| LENGTH-AREA | 7(2) | N |
| LENGTH-AREA-UNITS-CODE | 2 | A |
| LIGHT-DUTY-VEHICLE | 7 | N |
| LIMITED-ACCESS | 6 | N |
| MAJOR-ACTIVITY | 20 | A |
| POPULATION | 8 | N |
| POPULATION-CODE | 1 | A |
| PROJECTED-YEAR | 2 | N |
| RURAL | 6 | N |
| RURAL-POPULATION-PERCENT | 2 | N |
| SIP-BASE-YEAR | 2 | N |
| SIP-ESTIMATE-CO | 5 | N |
| SIP-ESTIMATE-HC | 5 | N |
| SIP-ESTIMATE-NOX | 4 | N |
| SIP-ESTIMATE-SO2 | 4 | N |
| SIP-ESTIMATE-TSP | 5 | N |
| SMSA | 4 | A |
| SOURCE-TYPE | 1 | A |
| SUBALLOC-TECH-CODE | 2 | A |
| SUBURBAN | 6 | N |
| SULFUR-ANTHRACITE-COAL | 2(1) | N |
| SULFUR-BITUMINOUS-COAL | 2(1) | N |
| SULFUR-DISTILLATE-OIL | 2(1) | N |
| SULFUR-RESIDUAL-OIL | 2(1) | N |
| URBAN | 7 | N |
| UTM-HORIZONTAL-1 | 4(1) | N |
| UTM-HORIZONTAL-2 | 4(1) | N |
| UTM-HORIZONTAL-3 | 4(1) | N |
| UTM-HORIZONTAL-4 | 4(1) | N |
| UTM-HORIZONTAL-5 | 4(1) | N |
| UTM-HORIZONTAL-6 | 4(1) | N |
| UTM-VERTICAL-1 | 5(1) | N |
| UTM-VERTICAL-2 | 5(1) | N |
| UTM-VERTICAL-3 | 5(1) | N |
| UTM-VERTICAL-4 | 5(1) | N |
| UTM-VERTICAL-5 | 5(1) | N |
| UTM-VERTICAL-6 | 5(1) | N |
| UTM-ZONE-1 | 2 | N |
| UTM-ZONE-2 | 2 | N |
| UTM-ZONE-3 | 2 | N |
| UTM-ZONE-4 | 2 | N |
| UTM-ZONE-5 | 2 | N |
| UTM-ZONE-6 | 2 | N |
| YEAR | 2 | N |

NUMBERS IN PARENTHESES INDICATE ASSUMED DECIMAL POSITIONS

## EIS/AS QUICK LOOK RETRIEVAL

NAME

DATE

| | | | |
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| | | REPORT TITLE | |
| 1 8 | | 10 72 | 73 80 |
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SELECTION CRITERIA

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RELATIONAL OPERATORS:

E – EQUAL
U – UNEQUAL
G – GREATER THAN
L – LESS THAN
P – PRESENT
B – BLANK

AND/OR MUST BE BLANK ON LAST 10 CARD

REPORT TYPE

| | | |
|---|---|---|
| | | RPT CODE |
| 1 2 | | 4 5 |
| 2 0 | | |

REPORT CODES:

SU – POLLUTANT SUMMARY REPORT
QL – QUICK LOOK REPORT

REPORT ORDER

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DATA ABBR | X | | DATA ABBR | X | | DATA ABBR | X | | DATA ABBR | X | | DATA ABBR | X | DATA ABBR | X |
| 1 2 | | 4 7 | 8 | | 10 13 | 14 | | 16 19 | 20 | | 22 25 | 26 | | 28 31 | 32 | 34 37 | 38 |
| 3 0 | | | | | | | | | | | | | | | | | |

ENTER DATA ABBREVIATIONS LEFT TO RIGHT

ENTER X FOR PAGE BREAK/SUBTOTALLING

QUICK LOOK REPORT FORMAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT | | DATA ABBR | TOT |
| 1 2 | | 4 7 | 8 | | 10 13 | 14 | | 16 19 | 20 | | 22 25 | 26 | | 28 31 | 32 | | 34 37 | 38 | | 40 43 | 44 | | 46 49 | 50 | | 52 55 | | | 58 61 | 62 |
| 4 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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POLLUTANT SUMMARY REPORT FORMAT

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| | | DATA ABBR | | DATA ABBR | | DATA ABBR | | DATA ABBR | | DATA ABBR | | DATA ABBR | | DATA ABBR |
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POLLUTANT SUMMARY REPORT POLLUTANTS

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | POLLUTANT ID | | POLLUTANT ID | | POLLUTANT ID | | POLLUTANT ID | | POLLUTANT ID | | POLLUTANT ID |
| 1 2 | | 4 8 | | 10 14 | | 16 20 | | 22 26 | | 28 32 | | 34 38 |
| 5 1 | | | | | | | | | | | | |

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# Appendix D

## EIS/PS Input Forms

AGENCY ____________

# EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
# COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
# PLANT RECORD (SEGMENT O) TRANSACTIONS

BY ____________
DATE ____________
PAGE ______ OF ______

| STATE | COUNTY | AQCR | PLANT ID NUMBER | DATE OF RECORD YR | DATE OF RECORD DAY |
|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 14 | 18 |
| | | | | | |

| CON-TROL REGION | LOCAL CON-TROL | USER PLANT ID | CITY | UTM ZONE | OWNER | CONTACT PERSON | TELEPHONE | PRINCIPAL PRODUCT | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 22 | 24 | 36 | 40 | 42 | 43 | 58 | 68 | 78 | 80 |
| | | | | | | | | | 0 1 | |

| ESTABLISHMENT NAME AND ADDRESS | NUMBER OF EMPLOYEES | PROPERTY AREA | | CARD NBR | ACTION |
|---|---|---|---|---|---|
| 19 | 67 | 71 | | 78 | 80 |
| | | | | 0 2 | |

| ESTABLISHMENT MAILING ADDRESS | | CARD NBR | ACTION |
|---|---|---|---|
| 19  66 | | 78 | 80 |
| | | 0 3 | |

| NEDS P7 PLANT COMMENT | | CARD NBR | ACTION |
|---|---|---|---|
| 19 70 | | 78 | 80 |
| | | 0 4 | |

AGENCY ____________

# EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
# COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
# POINT RECORD (SEGMENT 1) TRANSACTIONS

BY ____________

DATE ____________

PAGE ________ OF ________

| STATE | COUNTY | AQCR | PLANT ID NBR | DATE OF RECORD YR | DATE OF RECORD DAY | NEDS POINT ID |
|---|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 14 | | 19 |
| | | | | | | |

| USER POINT ID | SIC | IPP | UTM HORIZ | UTM VERT | LATITUDE DEG | LATITUDE MIN | LATITUDE SEC | LONGITUDE DEG | LONGITUDE MIN | LONGITUDE SEC | % ANNUAL THRUPUT DEC-FEB | MAR-MAY | JUN-AUG | SEP-NOV | OPERATE RATE HR | D | WK | BOILER CAPACITY | SPACE HEAT | | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 24 | 28 | 30 | 34 | 39 | | | 45 | | | 52 | | | | 60 | | | 65 | 70 | | 78 | 80 |
| | | | | | | | | | | | | | | | | | | | | | 1 1 | |

| STACK DATA HEIGHT | DIAM | TEMP | FLOWRATE | VELOCITY | PLUME HEIGHT | POINTS WITH COMMON STACK | COMP | COMP SCHED YR | COMP SCHED MO | COMPLIANCE UPDATE YR | MO | DAY | ECAP | CONTROL REGULATIONS REG 1 | REG 2 | REG 3 | | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 25 | 28 | 32 | 39 | 44 | 48 | 52 | 53 | | 57 | | | 63 | 64 | | 75 | | 78 | 80 |
| | | | | | | | | | | | | | | | | | | 1 2 | |

| POLLUTANT ID | CONTROL EQUIPMENT COST | PRIM CNTRL EQUIP | SECNDY CNTRL EQUIP | EST CONTROL EFF | EMISSIONS ESTIMATE | MEASURED EMISSIONS | ALLOWABLE EMISSIONS | EUNT | ESTM | TESTM | | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 26 | 33 | 36 | 39 | 42 | 49 | 56 | 63 | 64 | 65 | | 78 | 80 |
| | | | | | | | | | | | | 1 3 | |
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| NEDS P2 POINT COMMENT | | CARD NBR | ACTION |
|---|---|---|---|
| 21 – 72 | | 77 | 80 |
| | | 1 4 | |

AGENCY ____________________

## EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## SCC RECORD (SEGMENT 2) TRANSACTIONS

BY ____________________

DATE ____________________

PAGE __________ OF ______

| STATE | COUNTY | AQCR | PLANT ID NBR | DATE OF RECORD YR | DATE OF RECORD DAY | NEDS POINT ID | SCC I | SCC II | SCC III | SCC IV | SCC SEQ NBR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 14 | | 19 | 21 | | | | 29 |
| | | | | | | | | | | | |

| BEC NO. | BEC ID | F UNIT | FUEL PROCESS SOLID WASTE OPERATING RATE | MAXIMUM DESIGN RATE | SULFUR CON-TENT | ASH CON-TENT | HEAT CONTENT | A/S ORG | A/S SRC | | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | | 36 | 37 | 44 | 51 | 54 | 57 | 62 | 63 | | 78 | 80 |
| | | | | ▲ | ▲ | ▲ | | | | | 2 1 | |

| CONF | SMC CD | SOURCE DESCRIPTION | | CARD NBR | ACTION |
|---|---|---|---|---|---|
| 31 | 32 | 33 … 57 | | 78 | 80 |
| | | | | 2 2 | |

| EMF ORG | EMF SRC | POLLUTANT ID | EMISSION FACTOR | A/S CD | E UNT | POLLUTANT ID | EMISSION FACTOR | A/S CD | E UNT | | CARD NBR | ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 32 | 33 | 38 | 47 | 48 | 49 | 54 | 63 | 64 | | 78 | 80 |
| | | | ▲ | | | | ▲ | | | | 2 3 | |
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| NEDS P7 SCC COMMENT - LEFT HALF | | CARD NBR | ACTION |
|---|---|---|---|
| 31 … 56 | | 78 | 80 |
| | | 2 4 | |

| NEDS P7 SCC COMMENT - RIGHT HALF | | CARD NBR | ACTION |
|---|---|---|---|
| 31 … 56 | | 78 | 80 |
| | | 2 5 | |

AGENCY ________

# EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
# COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
# COMMENT RECORD (SEGMENT 3) TRANSACTIONS

BY ________

DATE ________

PAGE ________ OF ________

| STATE | COUNTY | AQCR | PLANT ID NBR | DATE OF RECORD YR | DATE OF RECORD DAY | POINT ID |
|---|---|---|---|---|---|---|
| 1 | 3 | 7 | 10 | 14 |  | 19 |
|  |  |  |  |  |  |  |

| PNR SEQ NBR | LINE NBR | L/R | HALF COMMENT | CARD NBR | ACTION |
|---|---|---|---|---|---|
| 21 | 23 | 26 | 27 | 78 | 80 |
|  |  |  |  | 30 |  |
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AGENCY ____________________

## EMISSIONS INVENTORY SYSTEM/POINT SOURCE (EIS/PS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## EMISSION FACTOR FILE TRANSACTIONS

BY ____________________

DATE ____________________

PAGE ________ OF ________

| SCC NUMBER | DATE OF RECORD YR | DATE OF RECORD DAY |
|---|---|---|
| 3 … 10 | 18 | 22 |
| | | |

| NBR | ACTION | NEDS CATEGORY 1 | NEDS CATEGORY 2 | NEDS CATEGORY 3 |
|---|---|---|---|---|
| | 2 | 23 | 40 | 57 … 73 |
| 1 | | | | |

| NBR | ACTION | NEDS CATEGORY 4 | NEDS UNITS 1 - 35 |
|---|---|---|---|
| 1 | 2 | 23 | 40 … 74 |
| 2 | | | |

| NBR | ACTION | NEDS UNITS 36 - 69 |
|---|---|---|
| 1 | 2 | 23 … 56 |
| 3 | | |

| NBR | ACTION | | ORG | SRC | POLLUTANT ID | | POLLUTANT NAME | FLAGS V | FLAGS A | FLAGS S | UNIT | MEAS | EMISSION FACTOR | ASH CNT | SUL CNT | CDEF | CONF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | 11 | 12 | 13 … 17 | | 23 … 42 | 43 | 45 | 46 | 47 | | 49 | 58 | 61 | 64 | 67 |
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AGENCY ____________________

SEE BACK OF FORM FOR VALID CODES

## EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS / PS)
## COMPREHENSIVE DATA HANDLING SYSTEM (CDHS)
## RETRIEVAL SPECIFICATIONS

BY ____________________

DATE ____________________

PAGE ______ OF ______

| | USER KEYWORD | COPY MEMBER NAME |
|---|---|---|
| 1 — 8 | 10 — 13 | 16 — 23 |
| $ $ S E L E C T | | |

| SUBJECT NAME | N F | R O | OBJECT NAME (LITERALS MUST BE ENCLOSED IN SINGLE QUOTES) | B O |
|---|---|---|---|---|
| 1 — 31 | 33 | 35 | 37 — 67 | 69 — 71 |
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# EMISSIONS INVENTORY SYSTEM / POINT SOURCE (EIS/PS) RETRIEVAL SPECIFICATIONS

VALID VALUES FOR

NEGATION FLAG (NF):
BLANK, N

RELATIONAL OPERATOR (RO):
= EQUAL
> GREATER THAN
< LESS THAN

BOOLEAN OPERATOR (BO):
AND, OR, BLANK

TYPE: N = NUMERIC
A = ALPHABETIC

**PLANT RECORD DATA NAMES**

| NAME | LENGTH | TYPE |
|---|---|---|
| AQCR | 3 | N |
| CITY | 4 | N |
| CONTACT | 15 | A |
| COUNTY | 4 | N |
| DATE-OF-0-RECORD | 5 | N |
| LOCAL-CONTROL | 2 | A |
| NUMBER-OF-EMPLOYEES | 4 | N |
| OWNER | 1 | A |
| PLANT-ID | 4 | A |
| PRINCIPAL-PRODUCT | 10 | A |
| PROPERTY-AREA | 6(1) | N |
| RECORD-0-DAY | 3 | N |
| RECORD-0-YEAR | 2 | N |
| SEG-0-ID | 1 | N |
| STATE | 2 | N |
| TELEPHONE | 10 | N |
| USER-CONTROL-REGION | 3 | A |
| USER-PLANT-ID | 12 | A |
| UTM-ZONE | 2 | N |

**COMMENT RECORD DATA NAMES**

| NAME | LENGTH | TYPE |
|---|---|---|
| DATE-OF-3-RECORD | 5 | N |
| LINE-NBR | 3 | N |
| PNR-SEQ-NBR | 2 | N |
| RECORD-3-DAY | 3 | N |
| RECORD-3-YEAR | 2 | N |
| SEG-3-ID | 1 | N |
| SEG-3-POINT-ID | 2 | A |

**POINT RECORD DATA NAMES**

| NAME | LENGTH | TYPE |
|---|---|---|
| ANNUAL-THRUPUT | 8 | N |
| BOILER-DESIGN-CAPACITY | 5 | N |
| COMPLIANCE-SCHEDULE | 4 | N |
| COMPLIANCE-STATUS | 1 | N |
| COMPLIANCE-STATUS-UPDATE | 6 | N |
| CONTROL-REGULATIONS | 12 | N |
| DATE-OF-1-RECORD | 5 | N |
| DAY-WEEK | 1 | N |
| DEC-FEB | 2 | N |
| DIAMETER | 3(1) | N |
| ECAP | 1 | N |
| FLOW-RATE | 7 | N |
| HEIGHT | 4 | N |
| HORIZONTAL | 4(1) | N |
| HOURS-DAY | 2 | N |
| IPP | 2 | N |
| JUN-AUG | 2 | N |
| LATITUDE | 6 | N |
| LATITUDE-DEGREE | 2 | N |
| LATITUDE-MINUTE | 2 | N |
| LATITUDE-SECOND | 2 | N |
| LONGITUDE | 7 | N |
| LONGITUDE-DEGREE | 3 | N |
| LONGITUDE-MINUTE | 2 | N |
| LONGITUDE-SECOND | 2 | N |
| MAR-MAY | 2 | N |
| NBR-OF-POLLUTANTS | 2 | N |
| NEDS-POINT-ID | 2 | A |
| NORMAL-OPERATING | 5 | N |
| PLUME | 4 | N |
| POINTS-PER-STACK | 4 | N |
| RECORD-1-DAY | 3 | N |
| RECORD-1-YEAR | 2 | N |
| REG-1 | 4 | N |
| REG-2 | 4 | N |
| REG-3 | 4 | N |
| SCHEDULE-MONTH | 2 | N |
| SCHEDULE-YEAR | 2 | N |
| SEG-1-ID | 1 | N |
| SEP-NOV | 2 | N |
| SIC | 4 | N |
| SPACE-HEAT | 3(1) | N |
| STATUS-DAY | 2 | N |
| STATUS-MONTH | 2 | N |
| STATUS-YEAR | 2 | N |
| TEMPERATURE | 4 | N |
| USER-POINT-ID | 3 | A |
| UTM-COORDINATES | 9 | N |
| VELOCITY | 5 | N |
| VERTICAL | 5(1) | N |
| WEEK-YEAR | 2 | N |

**POINT REPEATING DATA NAMES**

| NAME | LENGTH | TYPE |
|---|---|---|
| ALLOWABLE | 7 | N |
| CNTL-EQUIP-COST | 7(2) | N |
| CONTROL-EQUIPMENT | 6 | N |
| EMISSION-UNITS | 1 | N |
| EST-CONTROL-EFF | 3(1) | N |
| ESTIMATES | 7 | N |
| ESTIMATION-METHOD | 1 | N |
| MEASURED | 7 | N |
| POLLUTANT-ID | 5 | N |
| POTENTIAL | 7 | N |
| PRIMARY-CNTL | 3 | N |
| SECONDARY-CNTL | 3 | N |
| TEST-METHOD | 1 | N |

**SCC RECORD DATA NAMES**

| NAME | LENGTH | TYP |
|---|---|---|
| ASH-CONTENT | 3(1) | N |
| BEC | 5 | N |
| BEC-ID | 2 | N |
| BEC-NUMBER | 3 | N |
| CONFIDENTIALITY | 1 | N |
| DATE-OF-2-RECORD | 5 | N |
| EMISSION-FACTOR-SOURCE | 1 | A |
| FUEL-PROCESS-RATE | 7 | N |
| FUEL-UNITS | 1 | N |
| HEAT-CONTENT | 5 | N |
| MAX-DESIGN-RATE | 7(3) | N |
| NUMBER-OF-EF | 2 | N |
| RECORD-2-DAY | 3 | N |
| RECORD-2-YEAR | 2 | N |
| SCC | 8 | N |
| SCC-I | 1 | N |
| SCC-II | 2 | N |
| SCC-III | 3 | N |
| SCC-IV | 2 | N |
| SCC-SEQ-NBR | 2 | N |
| SEG-2-ID | 1 | N |
| SEG-2-POINT-ID | 2 | A |
| SOURCE-CODE | 1 | A |
| SOURCE-DESCRIPTION | 25 | A |
| SULFUR-CONTENT | 3(2) | N |

NUMBERS IN PARENTHESES INDICATE ASSUMED DECIMAL POSITIONS

## EIS/PS QUICK LOOK RETRIEVAL

NAME

DATE

| | REPORT TITLE |
|---|---|
| 1 8 | 10 72 |
| $ $ S E L E C T | |

SELECTION CRITERIA

| | ( | DATA ABBR | REL OP | VALUE | ) | AND/OR |
|---|---|---|---|---|---|---|
| 1 2 | 4 | 6 9 | 11 | 13 24 | 26 | 28 30 |
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RELATIONAL OPERATORS:

E – EQUAL
U – UNEQUAL
G – GREATER THAN
L – LESS THAN
P – PRESENT
B – BLANK

AND/OR MUST BE BLANK ON LAST 10 CARD

OUTPUTS

| | RPT CODE | RPT CODE |
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| 1 2 | 4 5 | 7 8 |
| 2 0 | | |

REPORT CODES:

OL – QUICK LOOK REPORT

TA – TURNAROUND DOCUMENT

AF – ANSWER FILE

REPORT ORDER

| | DATA ABBR | X | DATA ABBR | X | DATA ABBR | X | DATA ABBR | X | DATA ABBR | X | DATA ABBR | X |
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| 1 2 | 4 7 | 8 | 10 13 | 14 | 16 19 | 20 | 22 25 | 26 | 28 31 | 32 | 34 37 | 38 |
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ENTER DATA ABBREVIATIONS LEFT TO RIGHT

ENTER X FOR PAGE BREAK/SUBTOTALLING

QUICK LOOK REPORTS

| | SUP-PRES | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT | DATA ABBR | TOT |
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# EIS/PS QUICK LOOK RETRIEVAL

PAGE 2

| DATA ELEMENT | ABBRE-VIATION | POSITION IN MASTER FILE | DATA ELEMENT LENGTH | | |
|---|---|---|---|---|---|
| | | | IN MASTER FILE | IN QUICK LOOK REPORT | ** IN QUICK LOOK REPORT IF TOTALLED |
| DATA ELEMENTS COMMON TO ALL SEGMENTS | | | | | |
| AQCR | AQCR | 50 | 3 | 5 | |
| County | CNTY | 46 | 4 | 5 | |
| Plant | PLNT | 53 | 4 | 5 | |
| Segment Date | DATE | 57 | 5 | 6 | |
| Segment Day | DAYY | 59 | 3 | 5 | |
| Segment ID | SEGM | 57 | 2 | 5 | |
| Segment Year | YEAR | 62 | 1 | 5 | |
| State | STTE | 44 | 2 | 5 | |
| DATA ELEMENTS COMMON TO POINT, SCC, and COMMENT SEGMENTS | | | | | |
| NEDS Point ID | NPID | 63 | 2 | 5 | |
| PLANT SEGMENT DATA ELEMENTS | | | | | |
| AQCR | 0AQC | 50 | 3 | 5 | |
| City | CITY | 82 | 4 | 5 | |
| Contact | CONT | 89 | 15 | 16 | |
| County | 0CNT | 46 | 4 | 5 | |
| Local Control | LCON | 68 | 2 | 5 | |
| Mailing Address | MAIL | 182 | 48 | 49 | |
| Name and Address | NAAD | 124 | 48 | 49 | |
| No. of Employees | NUME | 172 | 4 | 5 | 9 |
| Ownership | OWNS | 88 | 1 | 5 | |
| Plant ID | 0PLN | 53 | 4 | 5 | |
| Principal Product | PROD | 114 | 10 | 11 | |
| Property Area | PROP | 176 | 6 | 8 | 13 |
| Segment Date | 0DTE | 57 | 5 | 6 | |
| Segment Day | 0DAY | 59 | 3 | 5 | |
| Segment ID | 0SEG | 62 | 1 | 5 | |
| Segment Year | 0YER | 57 | 2 | 5 | |
| State | 0STT | 44 | 2 | 5 | |
| Telephone | TELE | 104 | 10 | 11 | |
| User Control Region | UCON | 65 | 3 | 5 | |
| User Plant ID | UPLT | 70 | 12 | 13 | |
| UTM Zone | UTMZ | 86 | 2 | 5 | |
| POINT SEGMENT DATA ELEMENTS | | | | | |
| AQCR | 1AQC | 50 | 3 | 5 | |
| Boiler Design Capacity | BOIL | 109 | 5 | 11 | 11 |
| Control Regulations | CREG | 160 | 12 | 13 | |
| Control Regulation 1 | REG1 | 160 | 4 | 5 | |
| Control Regulation 2 | REG2 | 164 | 4 | 5 | |
| Control Regulation 3 | REG3 | 168 | 4 | 5 | |
| Compliance Schedule | CSCH | 149 | 4 | 5 | |
| Comp. Schedule Year | SCHY | 149 | 2 | 5 | |
| Comp. Schedule Month | SCHM | 151 | 2 | 5 | |
| Compliance Status | CSTT | 148 | 1 | 5 | |
| Compliance Update | CUPD | 153 | 6 | 7 | |
| Comp. Update Day | CUDY | 157 | 2 | 5 | |
| Comp. Update Month | CUMN | 155 | 2 | 5 | |
| Comp. Update Year | CUYR | 153 | 2 | 5 | |
| County | 1CNT | 46 | 4 | 5 | |
| ECAP | ECAP | 159 | 1 | 5 | |
| Exhaust Flow Rate | FLOW | 128 | 7 | 8 | |
| IPP Code | IPPC | 72 | 2 | 5 | |
| Latitude | LATT | 83 | 6 | 7 | |
| Latitude Degree | LATD | 83 | 2 | 5 | |
| Latitude Minute | LATM | 85 | 2 | 5 | |
| Latitude Second | LATS | 87 | 2 | 5 | |
| Longitude | LONG | 89 | 7 | 8 | |
| Longitude Degree | LOND | 89 | 3 | 5 | |
| Longitude Minute | LONM | 92 | 2 | 5 | |
| Longitude Second | LONS | 94 | 2 | 5 | |
| NEDS Point ID/SEGMENT | S1ID | 63 | 2 | 5 | |
| Normal Operating Rate | NORM | 104 | 5 | 6 | |
| Number of Pollutants | NUMP | 239 | 2 | 5 | |
| Plant ID | 1PLN | 53 | 4 | 5 | |
| Plume Height | PLUM | 140 | 4 | 5 | |
| Point IDs | PTID | 63 | 5 | 6 | |
| Points w/ Common Stack | PWCS | 144 | 4 | 5 | |
| Segment Date | 1DTE | 57 | 5 | 6 | |
| Segment Day | 1DAY | 59 | 3 | 5 | |
| Segment ID | 1SEG | 62 | 1 | 5 | |
| Segment Year | 1YER | 57 | 2 | 5 | |
| SIC Code | SICC | 68 | 4 | 5 | |
| Space Heat % | SPAC | 114 | 3 | 5 | |
| Stack Data | STAD | 117 | 27 | 28 | |
| Stack Diameter | DIAM | 121 | 3 | 5 | |
| Stack Height | HGHT | 117 | 4 | 5 | |
| Stack Temperature | TEMP | 124 | 4 | 5 | |
| POINT SEGMENT DATA ELEMENTS (continued) | | | | | |
| State | 1STT | 44 | 2 | 5 | |
| Throughput | THRU | 96 | 8 | 9 | |
| Throughput/Dec-Feb | WNTR | 96 | 2 | 5 | |
| Throughput/Jun-Aug | SUMM | 100 | 2 | 5 | |
| Throughput/Mar-May | SPNG | 98 | 2 | 5 | |
| Throughput/Sep-Nov | FALL | 102 | 2 | 5 | |
| User Point ID | UPID | 65 | 3 | 5 | |
| UTM Coordinates | UTMC | 74 | 9 | 10 | |
| UTM Horizontal | HORZ | 74 | 4 | 6 | |
| UTM Vertical | VERT | 78 | 5 | 7 | |
| Velocity | VELO | 135 | 5 | 6 | |
| Repeating Point Segment Data Elements (POLL must be specified) | | | | | |
| Control Equipment | CEQP | 253 | 6 | 7 | |
| Control Equip. Cost | CCST | 246 | 7 | 9 | 14 |
| Emission Units | EUNT | 290 | 1 | 5 | |
| Emissions Allowable | ALLO | 276 | 7 | 8 | 13 |
| Emissions Estimate | ESTI | 262 | 7 | 8 | 13 |
| Emissions Measured | MEAS | 269 | 7 | 8 | 13 |
| Est Control Efficiency | ECEF | 259 | 3 | 5 | |
| Estimation Method | ESTM | 291 | 1 | 5 | |
| Pollutant ID | POLL* | 241 | 5 | 6 | |
| Primary Control Equip | PCTL | 253 | 3 | 5 | |
| Secondary Control Equip | SCTL | 256 | 3 | 5 | |
| Test Method | TSTM | 292 | 1 | 5 | |
| SCC SEGMENT DATA ELEMENTS | | | | | |
| AQCR | 2AQC | 50 | 3 | 5 | |
| Ash Content | ASHC | 98 | 3 | 5 | |
| BEC Code | BECC | 75 | 5 | 6 | |
| BEC ID | BECI | 78 | 2 | 5 | |
| BEC Number | BECN | 75 | 3 | 5 | |
| Confidentiality | CONF | 106 | 1 | 5 | |
| County | 2CNT | 46 | 4 | 5 | |
| Emission Factor Source | EMFS | 133 | 1 | 5 | |
| Fuel Process Rate | FPRT | 81 | 7 | 8 | 13 |
| Fuel Units | FUNT | 80 | 1 | 5 | |
| Heat Content | HEAT | 101 | 5 | 6 | |
| Maximum Design Rate | MDRT | 88 | 7 | 9 | 14 |
| NEDS Point ID/Segment 2 | S2ID | 63 | 2 | 5 | |
| No. of Emission Factors | NEMF | 197 | 2 | 5 | |
| Plant ID | 2PLN | 53 | 4 | 5 | |
| Source Class. Code | SCCC | 65 | 8 | 9 | |
| SCC 1 | SCC1 | 65 | 1 | 5 | |
| SCC 2 | SCC2 | 66 | 2 | 5 | |
| SCC 3 | SCC3 | 68 | 3 | 5 | |
| SCC 4 | SCC4 | 71 | 2 | 5 | |
| SCC Sequence Number | SSQN | 73 | 2 | 5 | |
| Segment Date | 2DTE | 57 | 5 | 6 | |
| Segment Day | 2DAY | 59 | 3 | 5 | |
| Segment ID | 2SEG | 62 | 1 | 5 | |
| Segment Year | 2YER | 57 | 2 | 5 | |
| Source Code | SRCC | 107 | 1 | 5 | |
| Source Description | SRCD | 108 | 25 | 26 | |
| State | 2STT | 44 | 2 | 5 | |
| Sulfur Content | SULC | 95 | 3 | 5 | |
| REPEATING SCC SEGMENT DATA ELEMENTS (MPID must be specified) | | | | | |
| Ash/Sulfur Code | ASSC | 214 | 1 | 5 | |
| Emission Factor | EMFA | 204 | 9 | 11 | |
| Emission Factor Units | EMFU | 215 | 1 | 5 | |
| Pollutant ID | MPID* | 199 | 5 | 6 | |
| COMMENT SEGMENT DATA ELEMENTS | | | | | |
| AQCR | 3AQC | 50 | 3 | 5 | |
| Comments | COMM | 71 | 102 | 99 | |
| County | 3CNT | 46 | 4 | 5 | |
| Left Comment | LCMT | 71 | 51 | 52 | |
| Line Number | LINE | 67 | 3 | 5 | |
| NEDS Point ID/Segment 3 | S3ID | 63 | 2 | 5 | |
| Plant ID | 3PLN | 53 | 4 | 5 | |
| PNR Sequence Number | SEQN | 65 | 2 | 5 | |
| Right Comment | RCMT | 122 | 51 | 52 | |
| Segment Date | 3DTE | 57 | 5 | 6 | |
| Segment Day | 3DAY | 59 | 3 | 5 | |
| Segment ID | 3SEG | 62 | 1 | 5 | |
| Segment Year | 3YER | 57 | 2 | 5 | |

0 denotes zero

* Relational Operator Must Be E

** Only fields having an entry in this column are eligible for totalling.